

**A Unified Strategy to *Ent*-Kauranoid Natural Products:  
Total Syntheses of (–)-Trichorabdal A and (–)-Longikaurin E**

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**Supporting Information 2 (NMR Spectra):**

jtsy-viii-101

Sample Name:

jtsy-viii-101

Data Collected on:

indy.caltech.edu-inova500

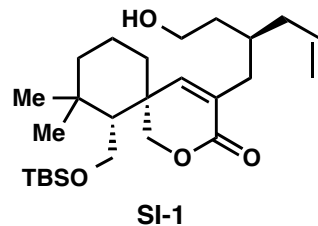
Archive directory:

/home/yeomanjo/vnmrsys/data

Sample directory:

jtsy-viii-101

FidFile: PROTON01



Pulse Sequence: PROTON (s2pul)

Solvent: cdcl3

Data collected on: May 31 2012

Sample #13, Operator: yeomanjo

Relax. delay 10.000 sec

Pulse 45.0 degrees

Acq. time 2.500 sec

Width 8000.0 Hz

8 repetitions

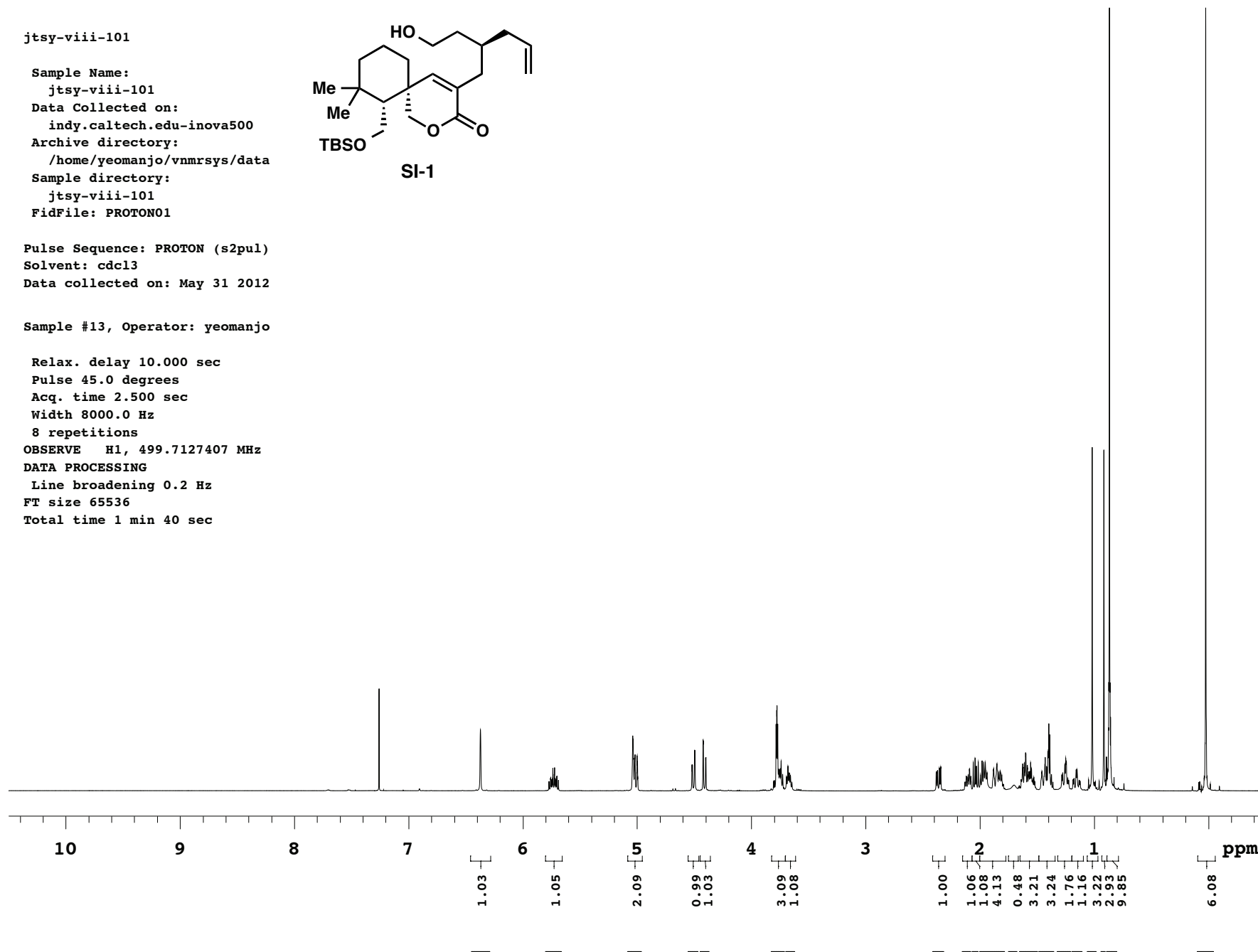
OBSERVE H1, 499.7127407 MHz

DATA PROCESSING

Line broadening 0.2 Hz

FT size 65536

Total time 1 min 40 sec



jtsy-viii-101

Sample Name:

jtsy-viii-101

Data Collected on:

indy.caltech.edu-inova500

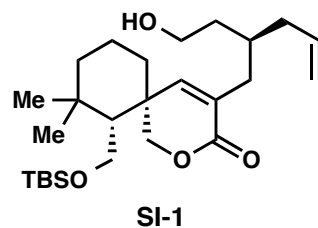
Archive directory:

/home/yeomanjo/vnmrsys/data

Sample directory:

jtsy-viii-101

FidFile: CARBON01



Pulse Sequence: CARBON (s2pul)

Solvent: cdcl3

Data collected on: May 31 2012

Sample #13, Operator: yeomanjo

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.042 sec

Width 31446.5 Hz

512 repetitions

OBSERVE C13, 125.6528709 MHz

DECOUPLE H1, 499.7152303 MHz

Power 39 dB

continuously on

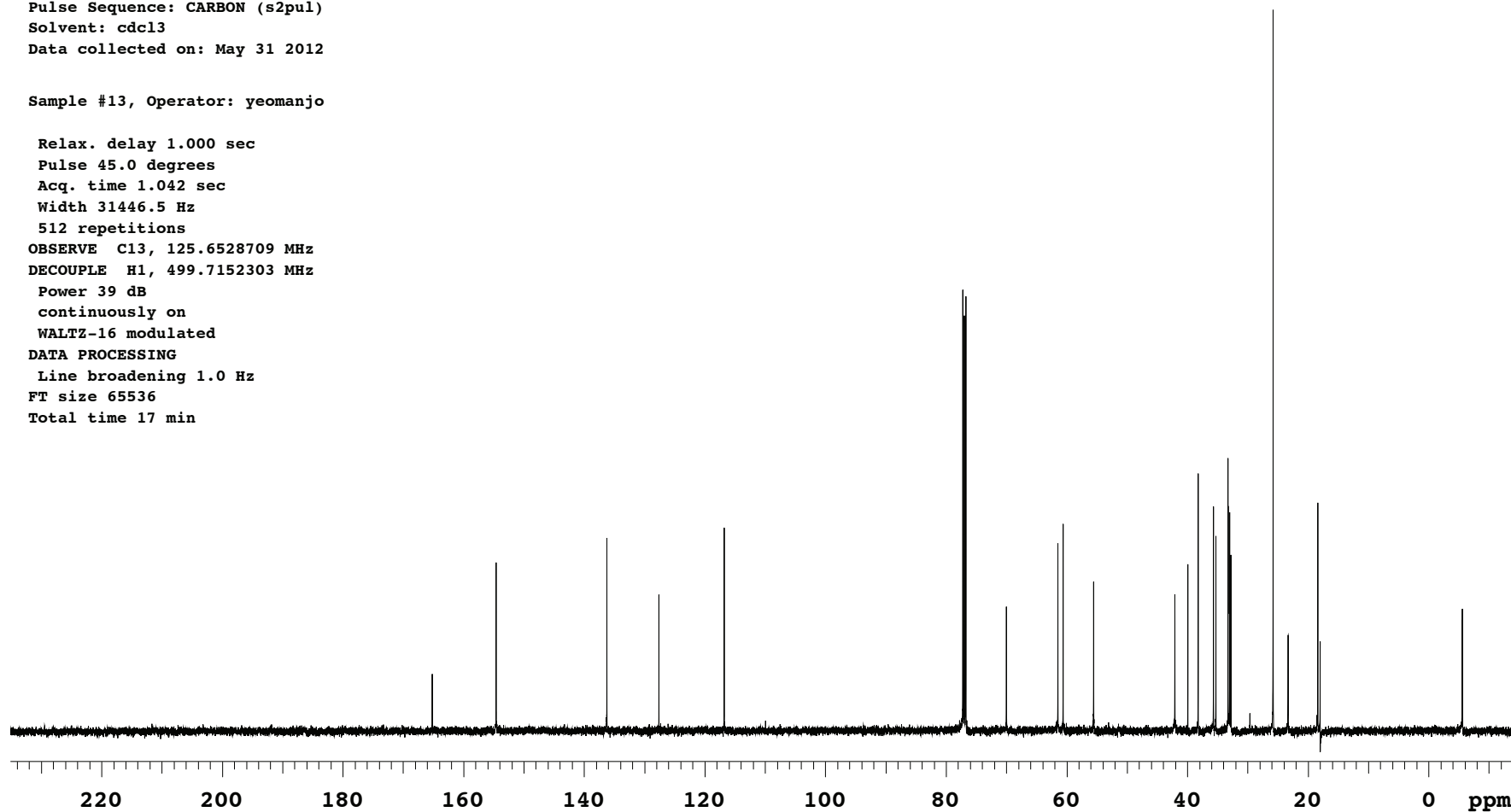
WALTZ-16 modulated

DATA PROCESSING

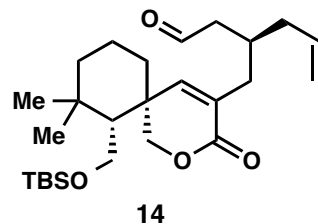
Line broadening 1.0 Hz

FT size 65536

Total time 17 min



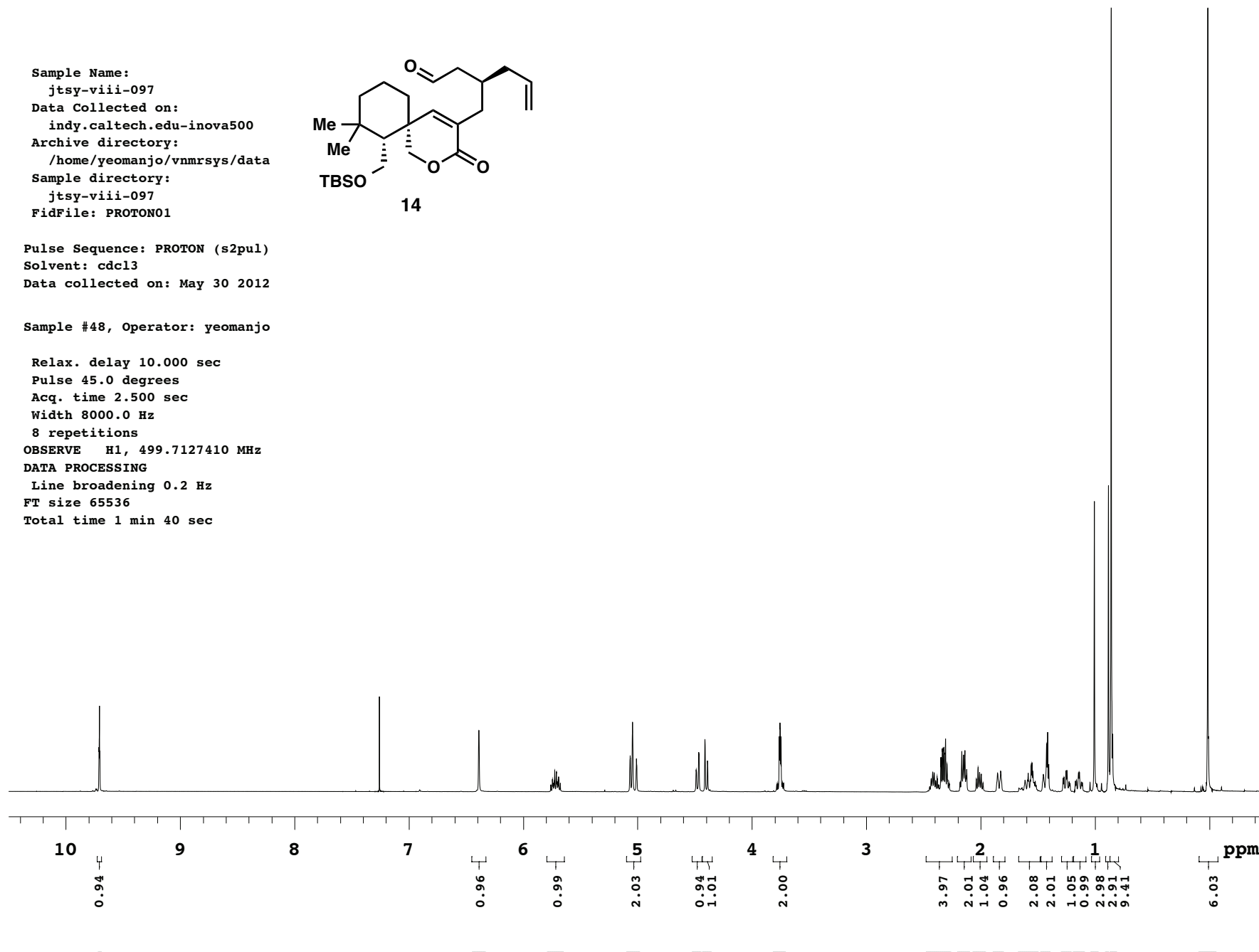
Sample Name:  
 jtsy-viii-097  
 Data Collected on:  
 indy.caltech.edu-inova500  
 Archive directory:  
 /home/yeomanjo/vnmrsys/data  
 Sample directory:  
 jtsy-viii-097  
 FidFile: PROTON01



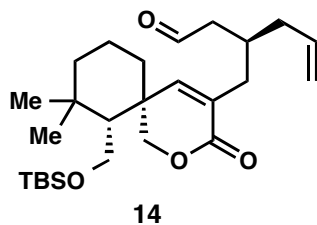
Pulse Sequence: PROTON (s2pul)  
 Solvent: cdcl3  
 Data collected on: May 30 2012

Sample #48, Operator: yeomanjo

Relax. delay 10.000 sec  
 Pulse 45.0 degrees  
 Acq. time 2.500 sec  
 Width 8000.0 Hz  
 8 repetitions  
 OBSERVE H1, 499.7127410 MHz  
 DATA PROCESSING  
 Line broadening 0.2 Hz  
 FT size 65536  
 Total time 1 min 40 sec



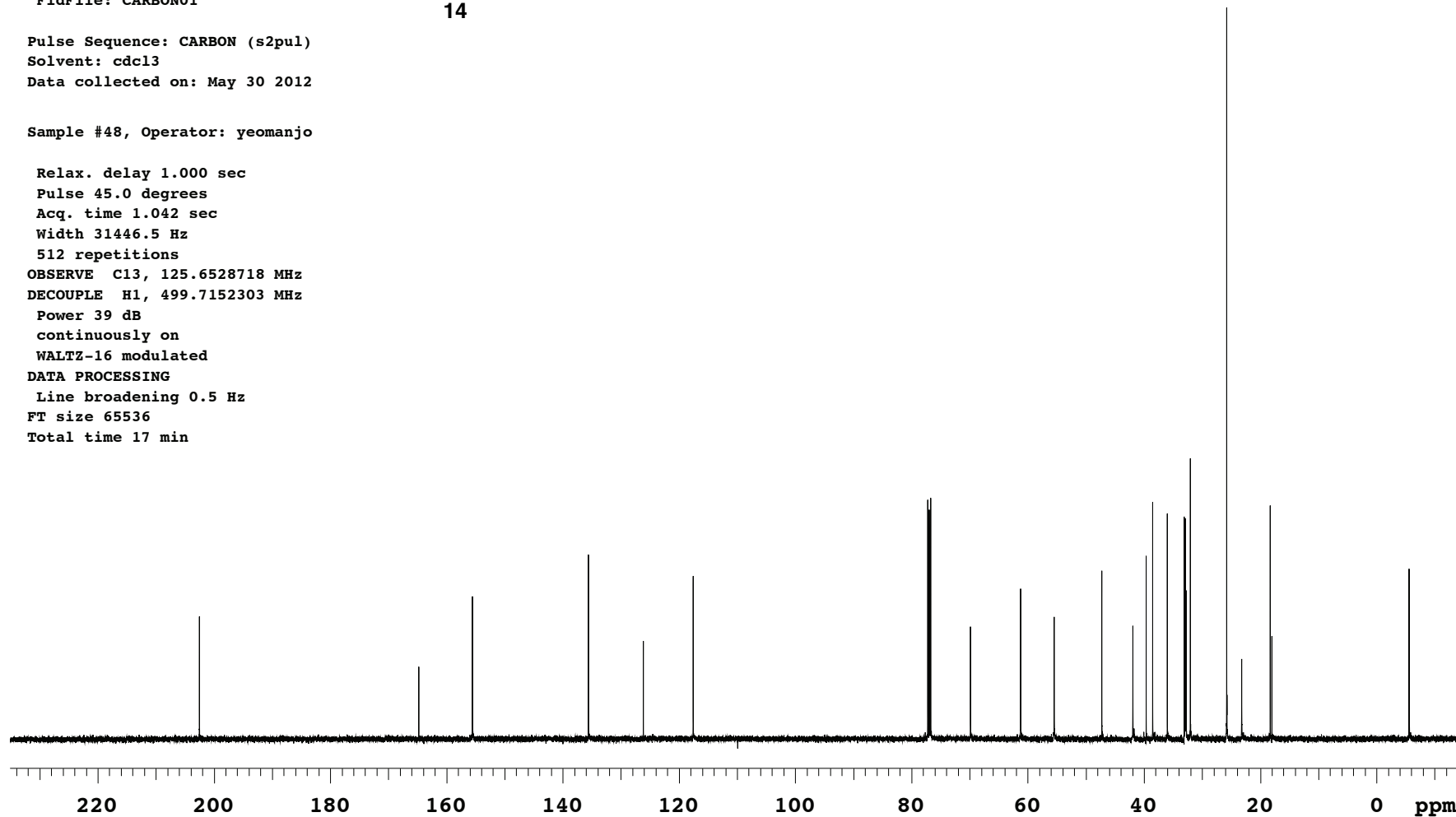
Sample Name:  
 jtsy-viii-097  
 Data Collected on:  
 indy.caltech.edu-inova500  
 Archive directory:  
 /home/yeomanjo/vnmrsys/data  
 Sample directory:  
 jtsy-viii-097  
 FidFile: CARBON01



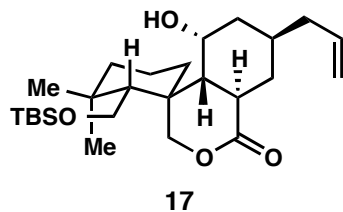
Pulse Sequence: CARBON (s2pul)  
 Solvent: cdcl3  
 Data collected on: May 30 2012

Sample #48, Operator: yeomanjo

Relax. delay 1.000 sec  
 Pulse 45.0 degrees  
 Acq. time 1.042 sec  
 Width 31446.5 Hz  
 512 repetitions  
 OBSERVE C13, 125.6528718 MHz  
 DECOUPLE H1, 499.7152303 MHz  
 Power 39 dB  
 continuously on  
 WALTZ-16 modulated  
 DATA PROCESSING  
 Line broadening 0.5 Hz  
 FT size 65536  
 Total time 17 min



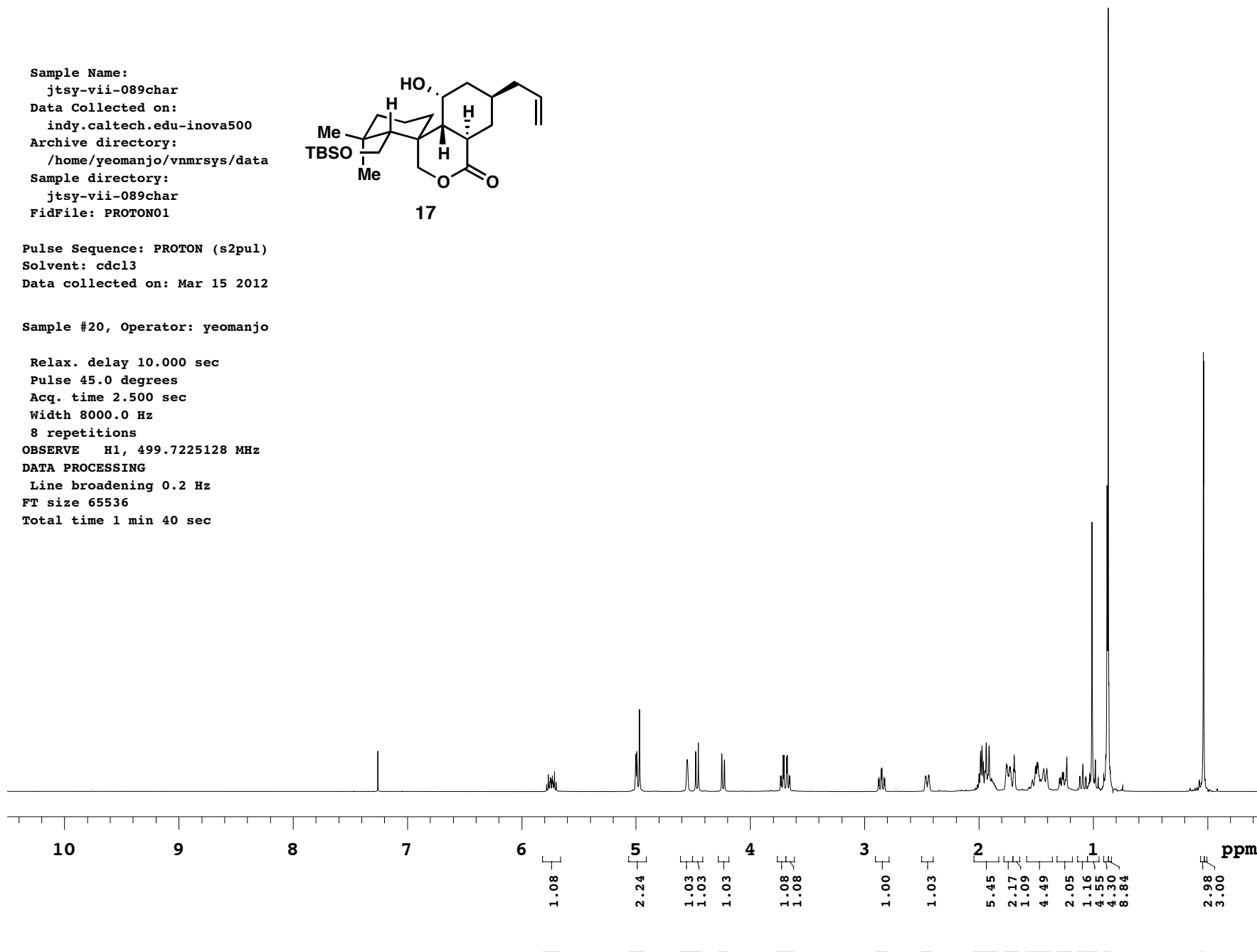
Sample Name:  
 jtsy-vii-089char  
 Data Collected on:  
 indy.caltech.edu-inova500  
 Archive directory:  
 /home/yeomanjo/vnmrsys/data  
 Sample directory:  
 jtsy-vii-089char  
 FidFile: PROTON01



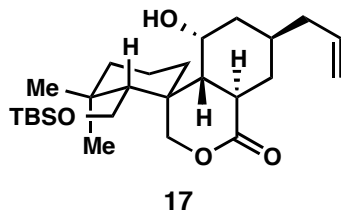
Pulse Sequence: PROTON (s2pul)  
 Solvent: cdcl3  
 Data collected on: Mar 15 2012

Sample #20, Operator: yeomanjo

Relax. delay 10.000 sec  
 Pulse 45.0 degrees  
 Acq. time 2.500 sec  
 Width 8000.0 Hz  
 8 repetitions  
 OBSERVE H1, 499.7225128 MHz  
 DATA PROCESSING  
 Line broadening 0.2 Hz  
 FT size 65536  
 Total time 1 min 40 sec



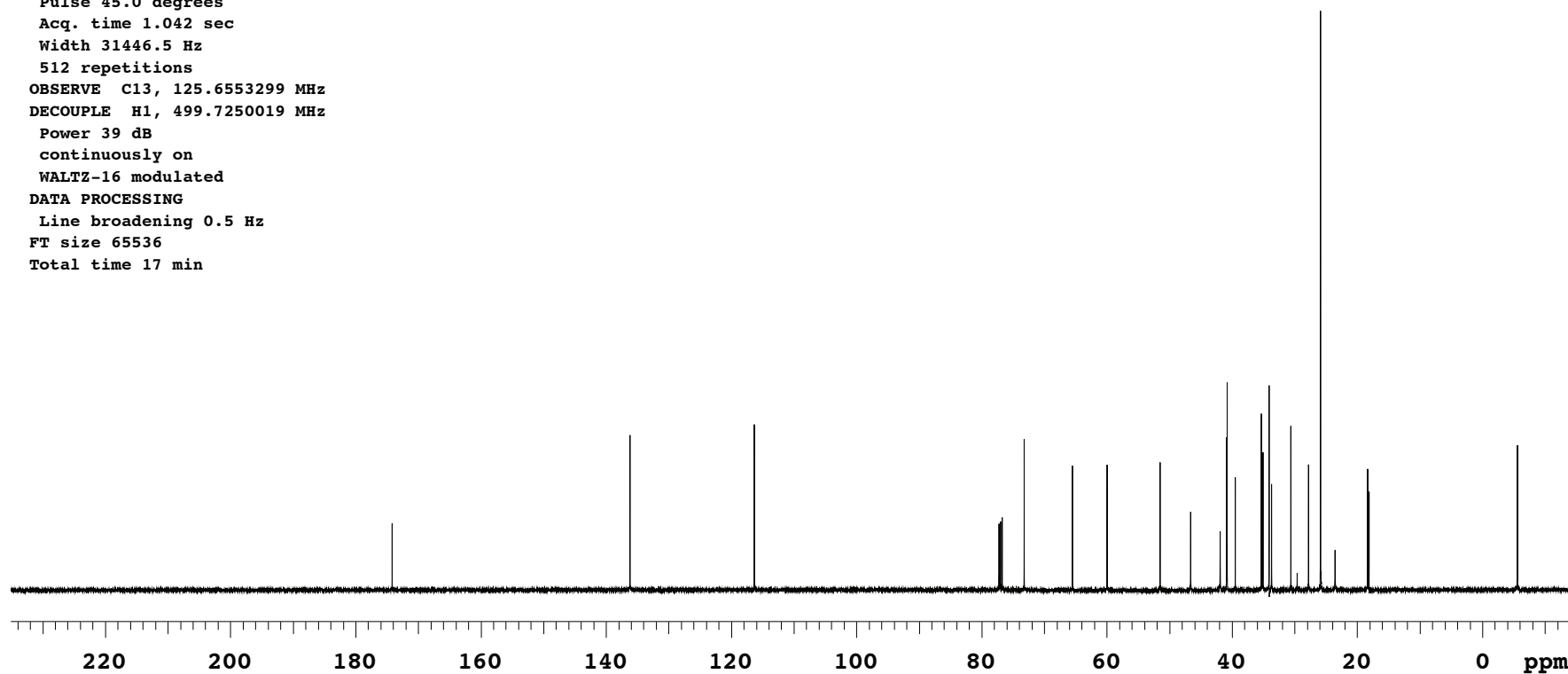
Sample Name:  
jtsy-vii-089char  
Data Collected on:  
indy.caltech.edu-inova500  
Archive directory:  
/home/yeomanjo/vnmrsys/data  
Sample directory:  
jtsy-vii-089char  
FidFile: CARBON01



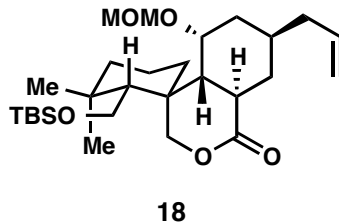
Pulse Sequence: CARBON (s2pul)  
Solvent: cdcl<sub>3</sub>  
Data collected on: Mar 15 2012

Sample #20, Operator: yeomanjo

Relax. delay 1.000 sec  
Pulse 45.0 degrees  
Acq. time 1.042 sec  
Width 31446.5 Hz  
512 repetitions  
OBSERVE C13, 125.6553299 MHz  
DECOUPLE H1, 499.7250019 MHz  
Power 39 dB  
continuously on  
WALTZ-16 modulated  
DATA PROCESSING  
Line broadening 0.5 Hz  
FT size 65536  
Total time 17 min



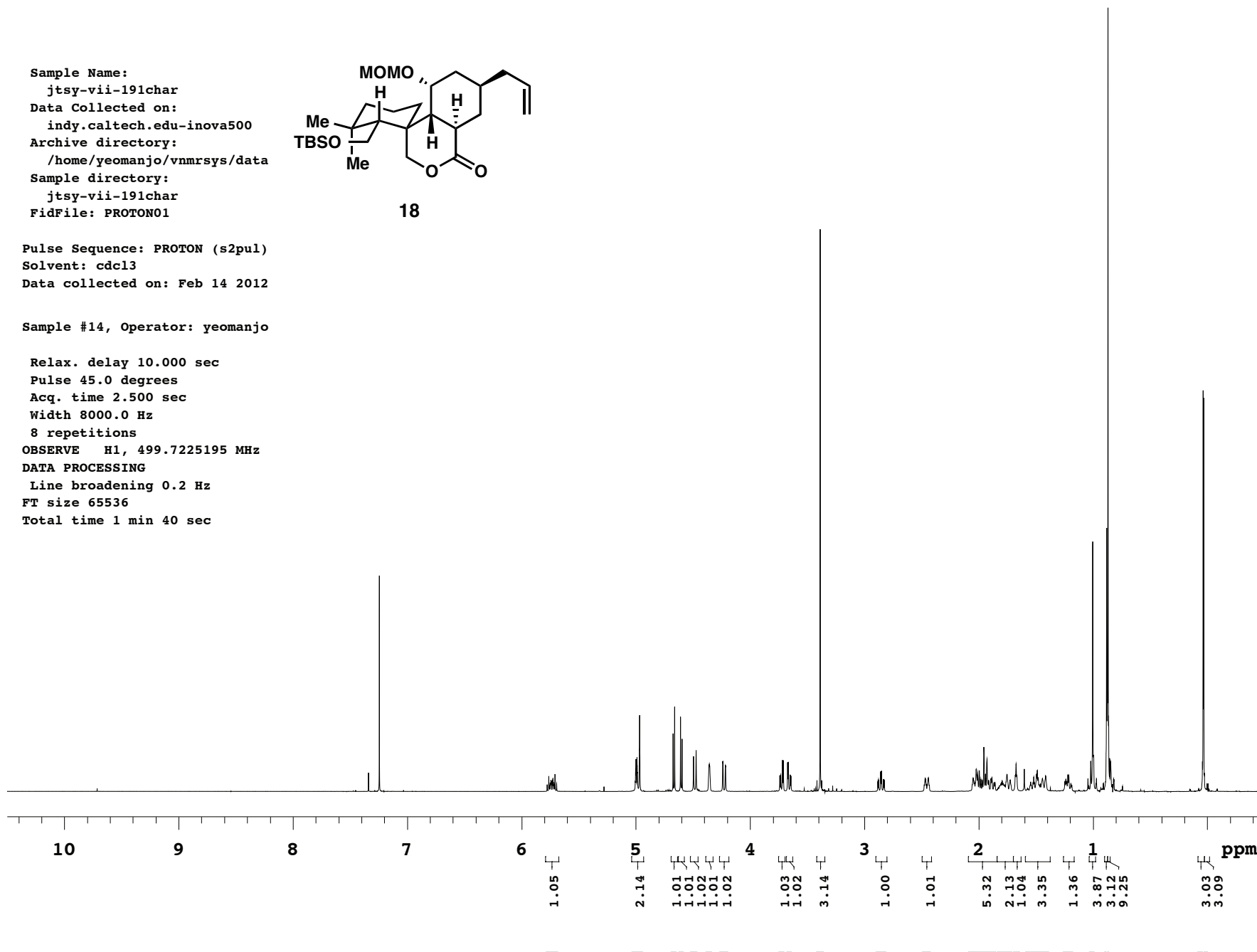
Sample Name:  
 jtsy-vii-191char  
 Data Collected on:  
 indy.caltech.edu-inova500  
 Archive directory:  
 /home/yeomanjo/vnmrsys/data  
 Sample directory:  
 jtsy-vii-191char  
 FidFile: PROTON01



Pulse Sequence: PROTON (s2pul)  
 Solvent: cdcl3  
 Data collected on: Feb 14 2012

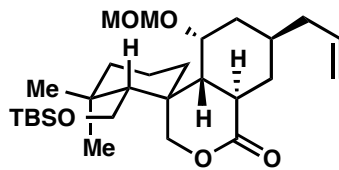
Sample #14, Operator: yeomanjo

Relax. delay 10.000 sec  
 Pulse 45.0 degrees  
 Acq. time 2.500 sec  
 Width 8000.0 Hz  
 8 repetitions  
 OBSERVE H1, 499.7225195 MHz  
 DATA PROCESSING  
 Line broadening 0.2 Hz  
 FT size 65536  
 Total time 1 min 40 sec





Sample Name:  
 jtsy-vii-191char  
 Data Collected on:  
 indy.caltech.edu-inova500  
 Archive directory:  
 /home/yeomanjo/vnmrsys/data  
 Sample directory:  
 jtsy-vii-191char  
 FidFile: CARBON01

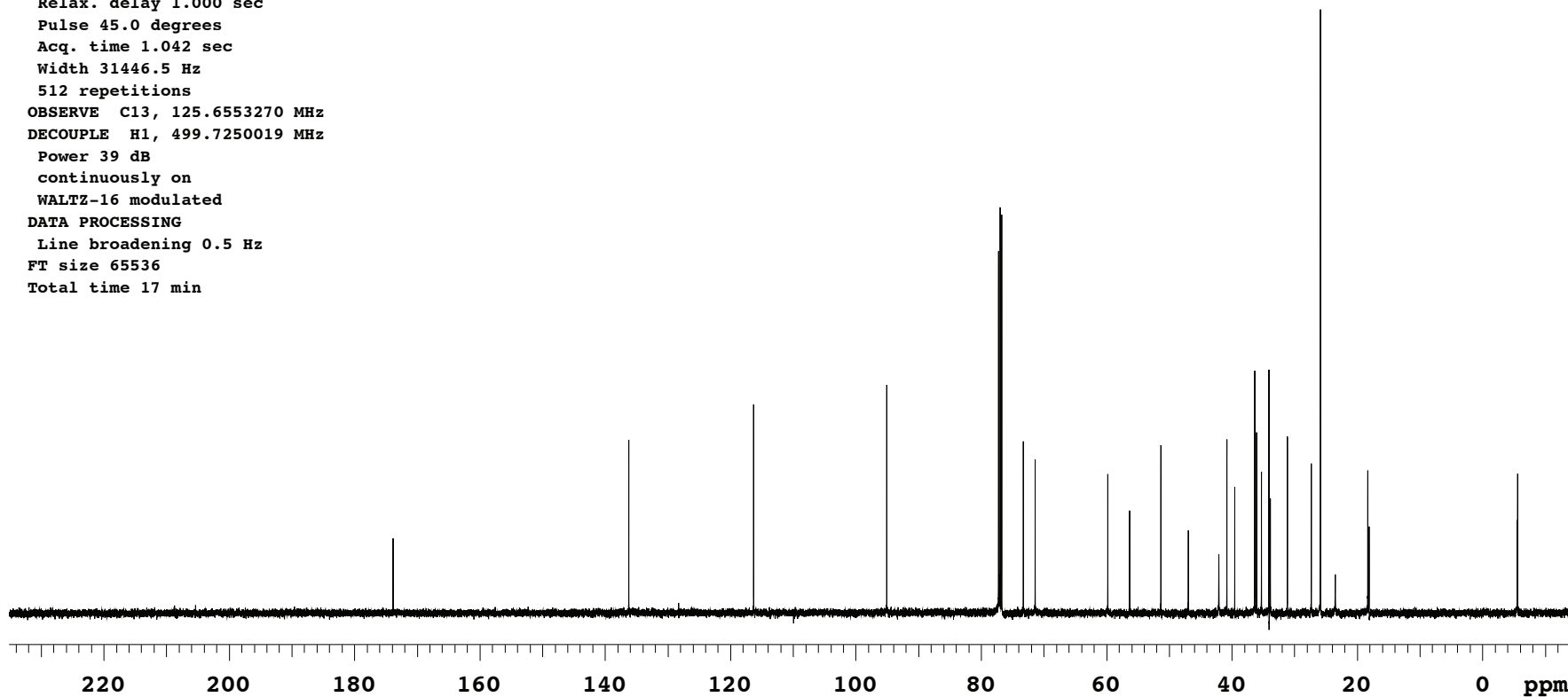


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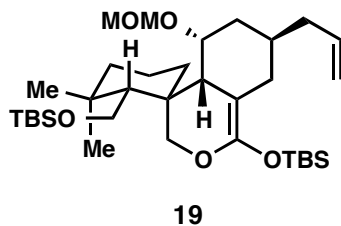
Pulse Sequence: CARBON (s2pul)  
 Solvent: cdcl3  
 Data collected on: Feb 14 2012

Sample #14, Operator: yeomanjo

Relax. delay 1.000 sec  
 Pulse 45.0 degrees  
 Acq. time 1.042 sec  
 Width 31446.5 Hz  
 512 repetitions  
 OBSERVE C13, 125.6553270 MHz  
 DECOUPLE H1, 499.7250019 MHz  
 Power 39 dB  
 continuously on  
 WALTZ-16 modulated  
 DATA PROCESSING  
 Line broadening 0.5 Hz  
 FT size 65536  
 Total time 17 min



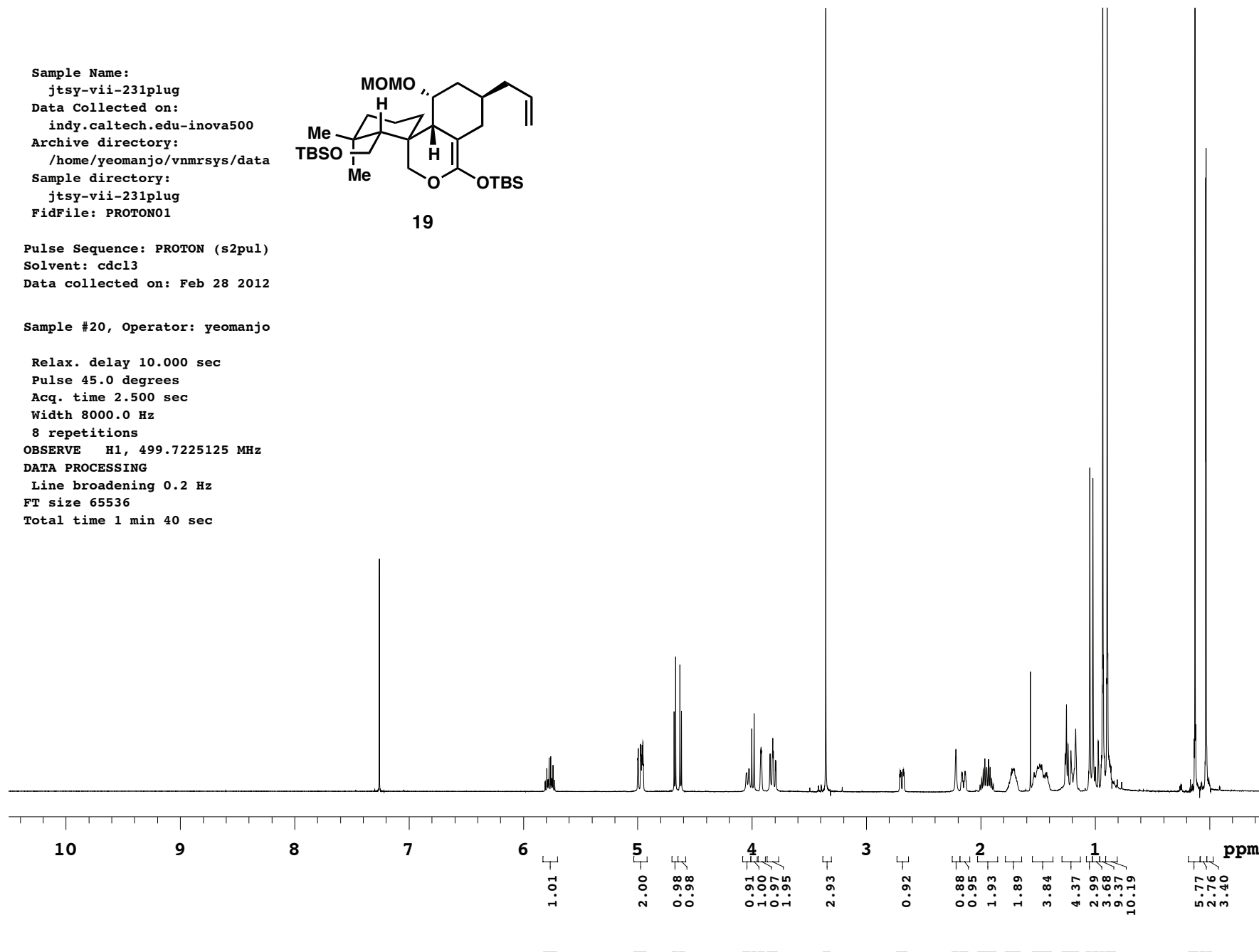
Sample Name:  
 jtsy-vii-231plug  
 Data Collected on:  
 indy.caltech.edu-inova500  
 Archive directory:  
 /home/yeomanjo/vnmrsys/data  
 Sample directory:  
 jtsy-vii-231plug  
 FidFile: PROTON01



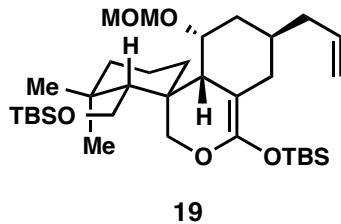
Pulse Sequence: PROTON (s2pul)  
 Solvent: cdcl3  
 Data collected on: Feb 28 2012

Sample #20, Operator: yeomanjo

Relax. delay 10.000 sec  
 Pulse 45.0 degrees  
 Acq. time 2.500 sec  
 Width 8000.0 Hz  
 8 repetitions  
 OBSERVE H1, 499.7225125 MHz  
 DATA PROCESSING  
 Line broadening 0.2 Hz  
 FT size 65536  
 Total time 1 min 40 sec



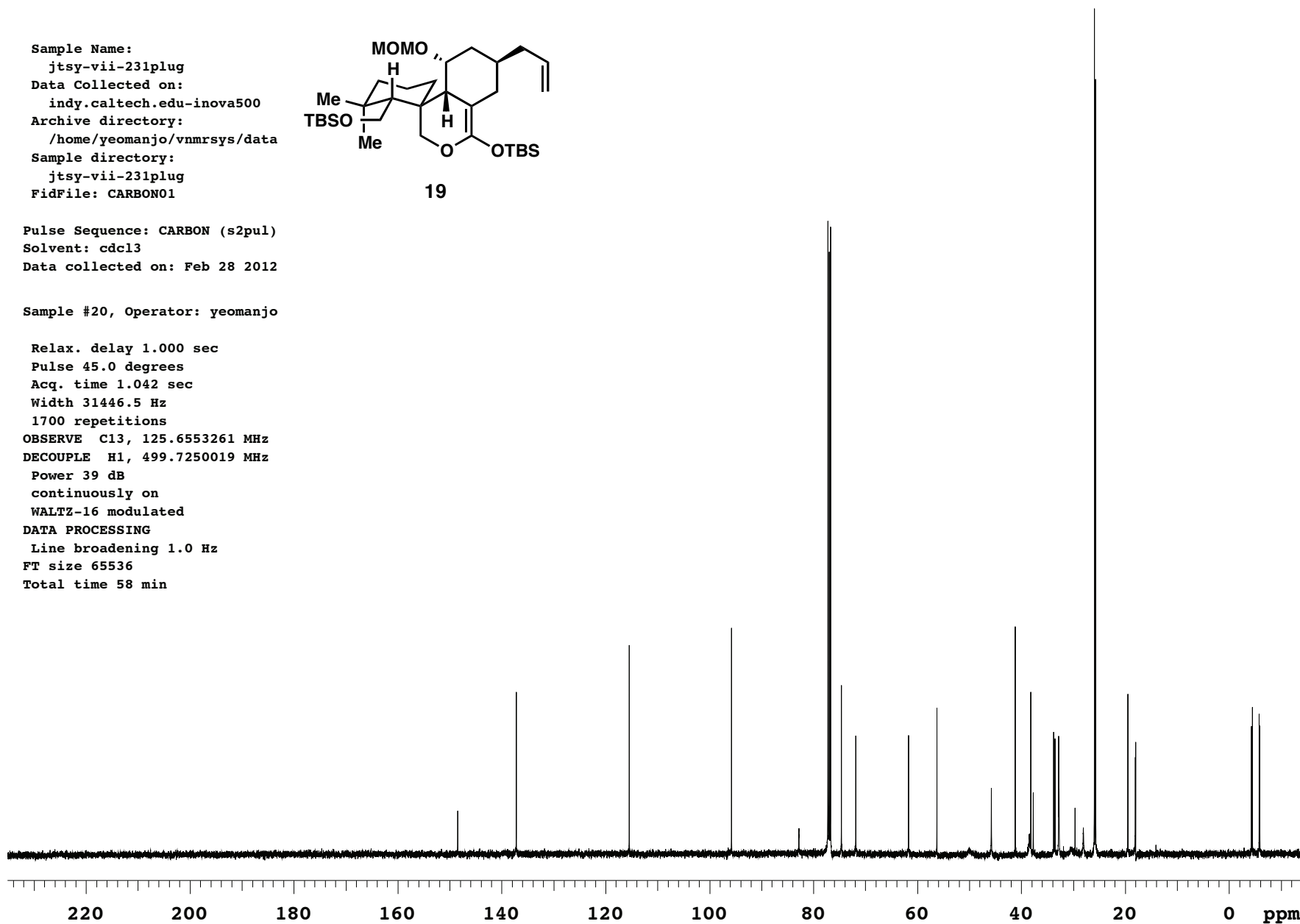
Sample Name:  
 jtsy-vii-231plug  
 Data Collected on:  
 indy.caltech.edu-inova500  
 Archive directory:  
 /home/yeomanjo/vnmrsys/data  
 Sample directory:  
 jtsy-vii-231plug  
 FidFile: CARBON01



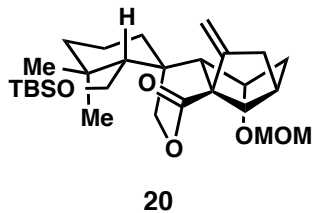
Pulse Sequence: CARBON (s2pul)  
 Solvent: cdcl3  
 Data collected on: Feb 28 2012

Sample #20, Operator: yeomanjo

Relax. delay 1.000 sec  
 Pulse 45.0 degrees  
 Acq. time 1.042 sec  
 Width 31446.5 Hz  
 1700 repetitions  
 OBSERVE C13, 125.6553261 MHz  
 DECOUPLE H1, 499.7250019 MHz  
 Power 39 dB  
 continuously on  
 WALTZ-16 modulated  
 DATA PROCESSING  
 Line broadening 1.0 Hz  
 FT size 65536  
 Total time 58 min



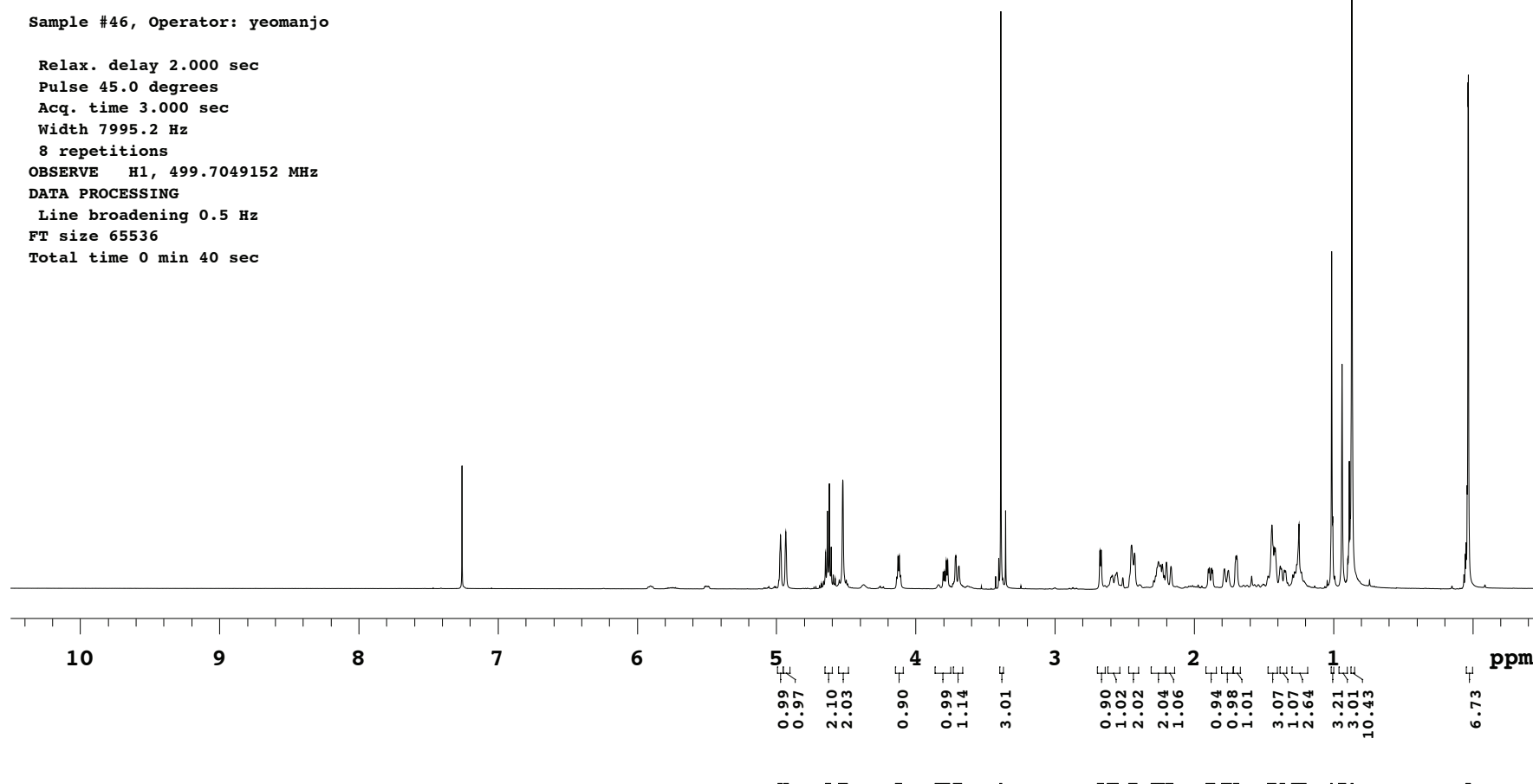
Sample Name:  
 jtsy-ix-081B-f23-39  
 Data Collected on:  
 indy.caltech.edu-inova500  
 Archive directory:  
 /home/yeomanjo/vnmrsys/data  
 Sample directory:  
 jtsy-ix-081B-f23-39  
 FidFile: PROTON01



Pulse Sequence: PROTON (s2pul)  
 Solvent: cdcl3  
 Data collected on: Jan 23 2013

Sample #46, Operator: yeomanjo

Relax. delay 2.000 sec  
 Pulse 45.0 degrees  
 Acq. time 3.000 sec  
 Width 7995.2 Hz  
 8 repetitions  
 OBSERVE H1, 499.7049152 MHz  
 DATA PROCESSING  
 Line broadening 0.5 Hz  
 FT size 65536  
 Total time 0 min 40 sec



Sample Name:  
jtsy-vii-125  
Data Collected on:  
daytona.caltech.edu-inova500  
Archive directory:

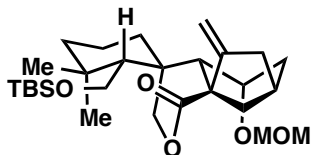
Sample directory:

FidFile: jtsy-vii-125-c13

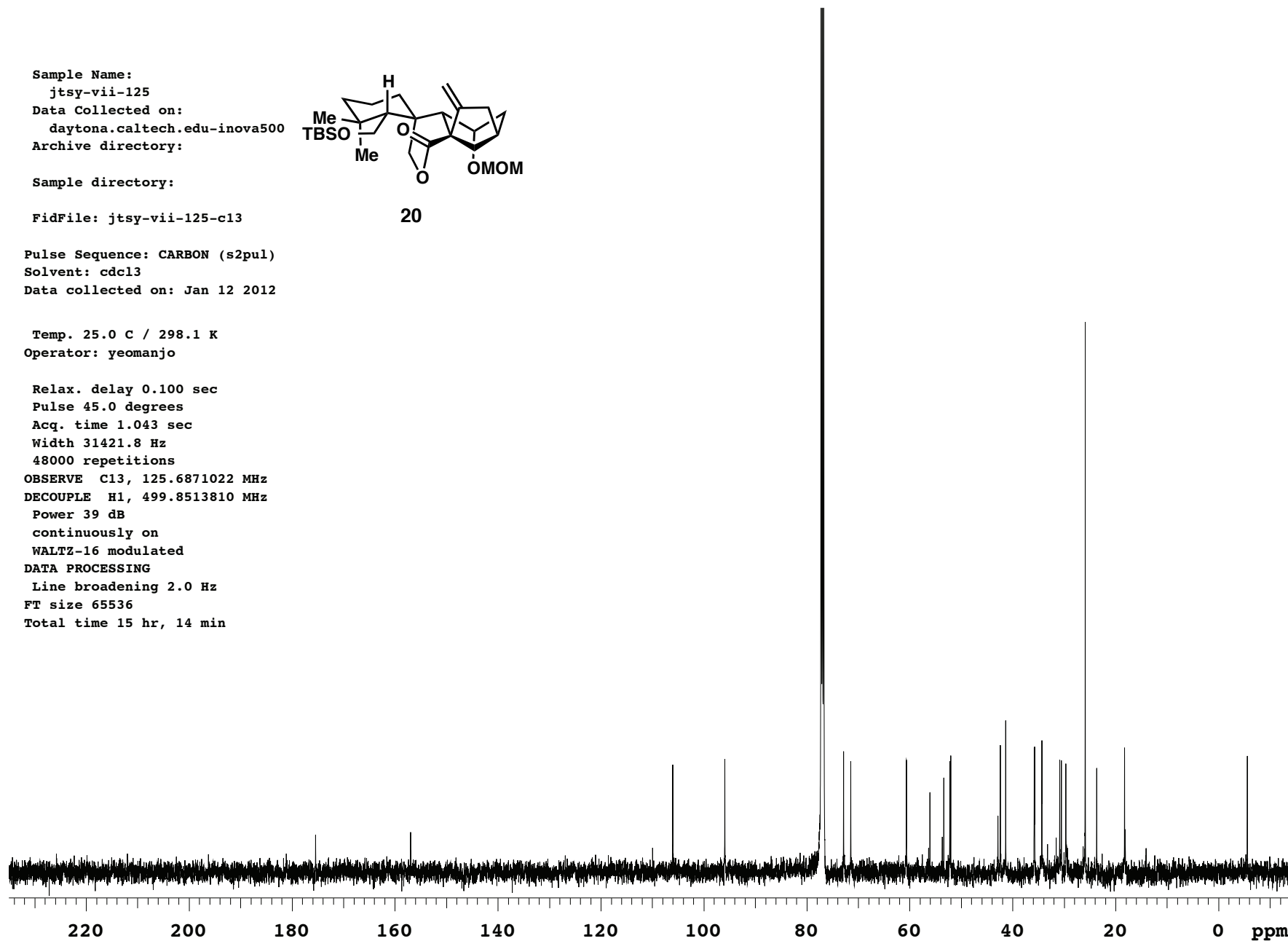
Pulse Sequence: CARBON (s2pul)  
Solvent: cdcl3  
Data collected on: Jan 12 2012

Temp. 25.0 C / 298.1 K  
Operator: yeomanjo

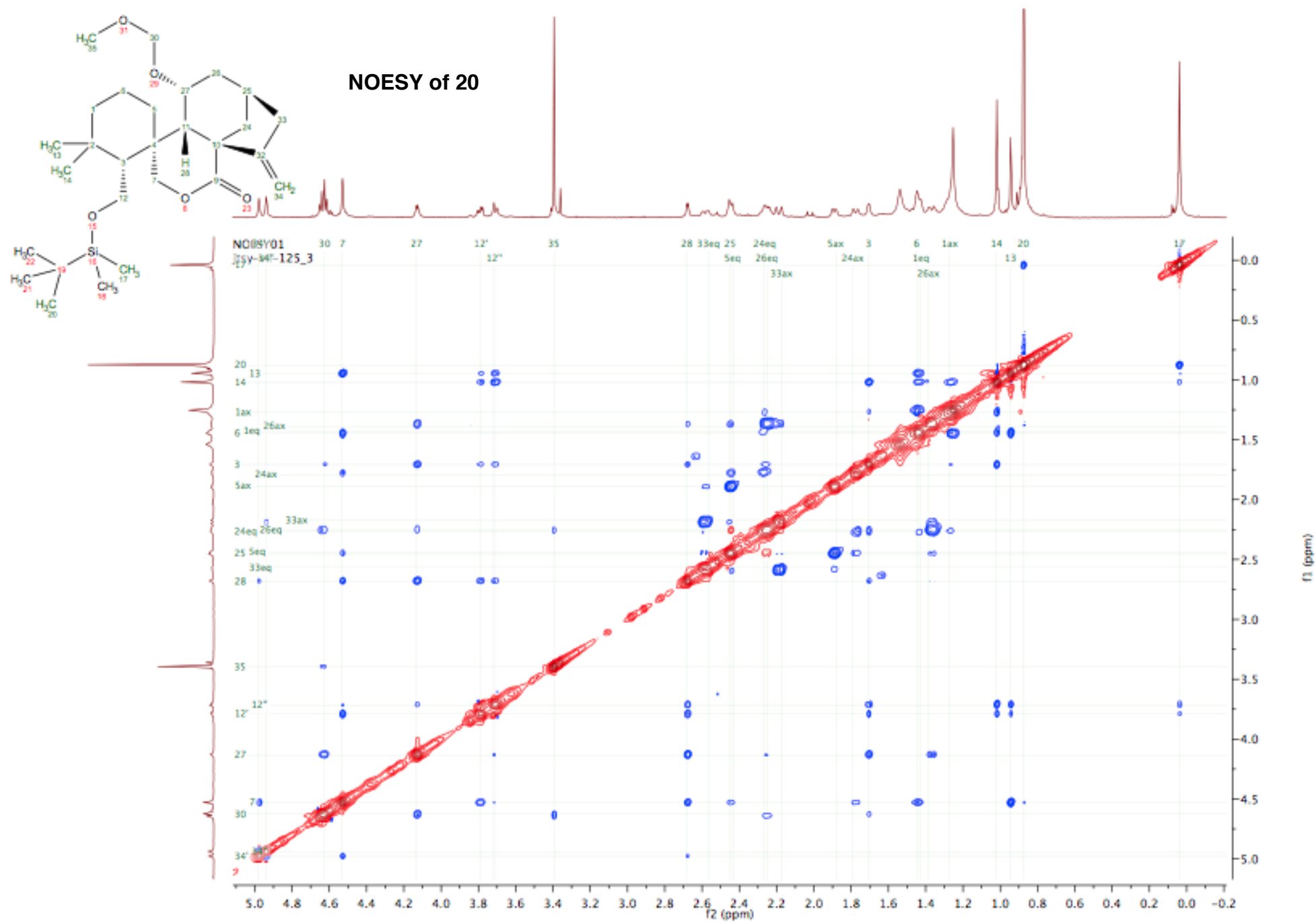
Relax. delay 0.100 sec  
Pulse 45.0 degrees  
Acq. time 1.043 sec  
Width 31421.8 Hz  
48000 repetitions  
OBSERVE C13, 125.6871022 MHz  
DECOUPLE H1, 499.8513810 MHz  
Power 39 dB  
continuously on  
WALTZ-16 modulated  
DATA PROCESSING  
Line broadening 2.0 Hz  
FT size 65536  
Total time 15 hr, 14 min



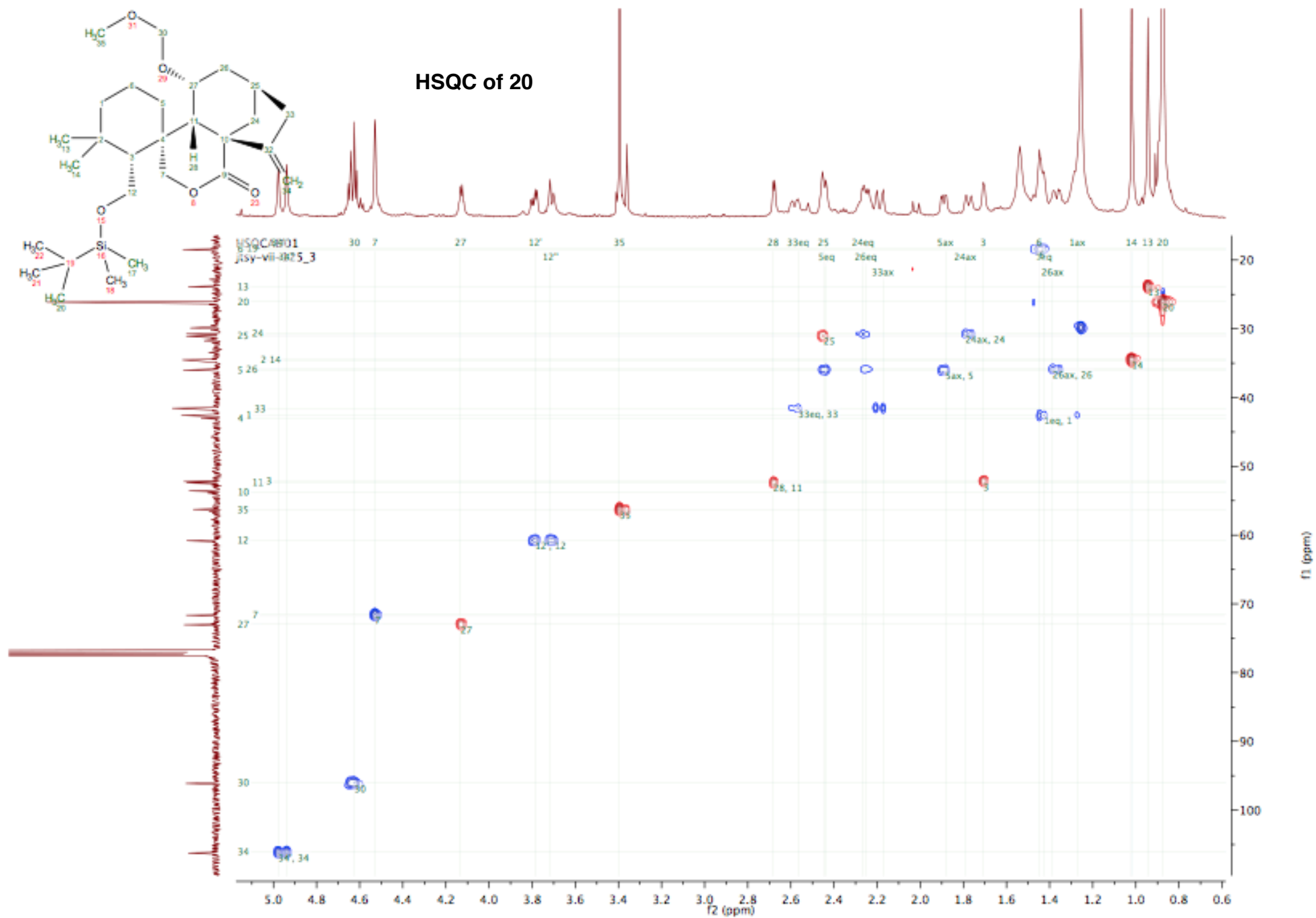
20



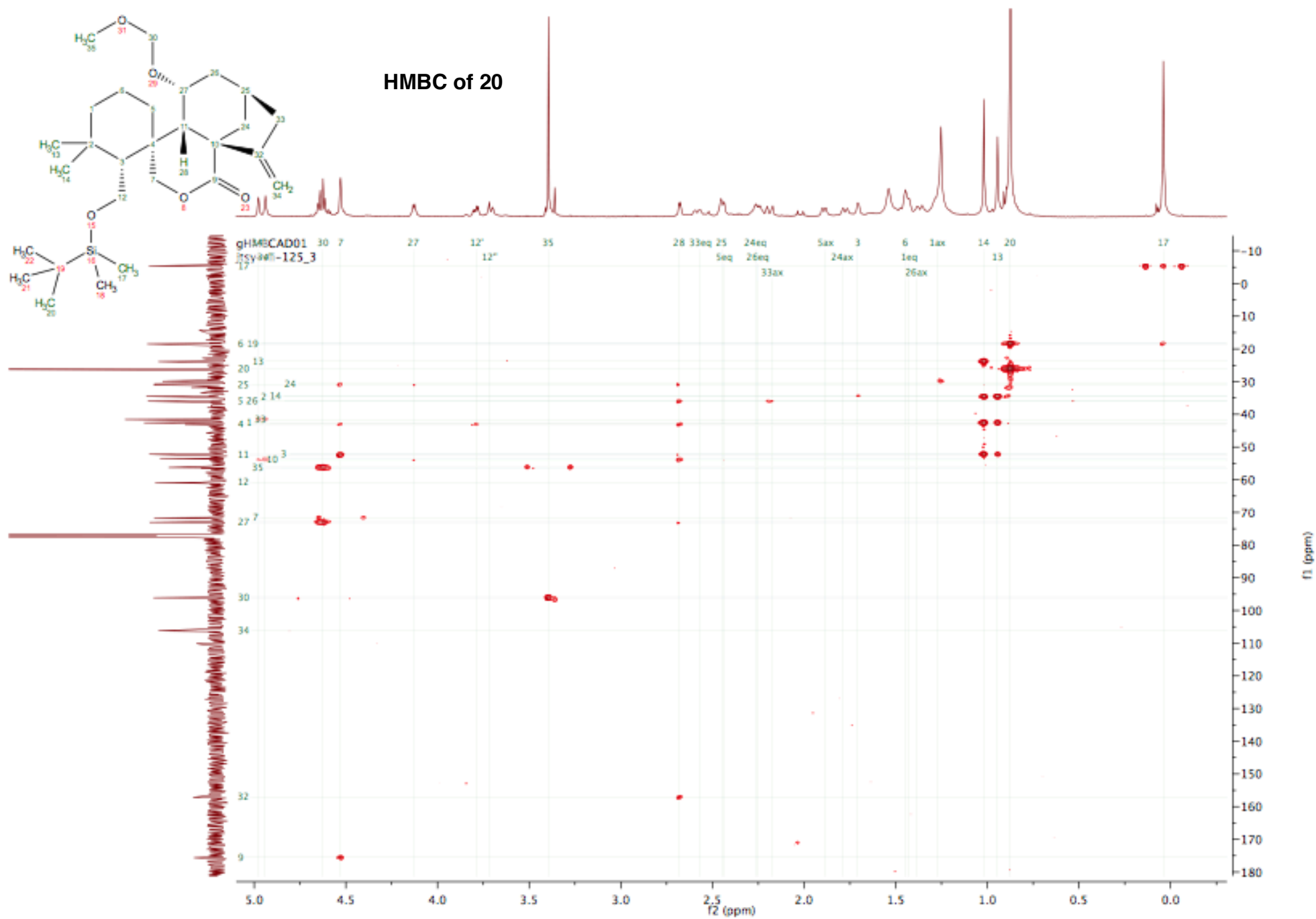




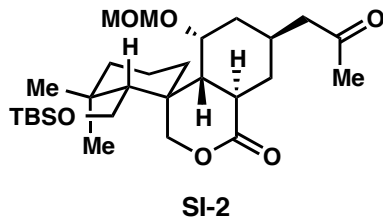
HSQC of 20







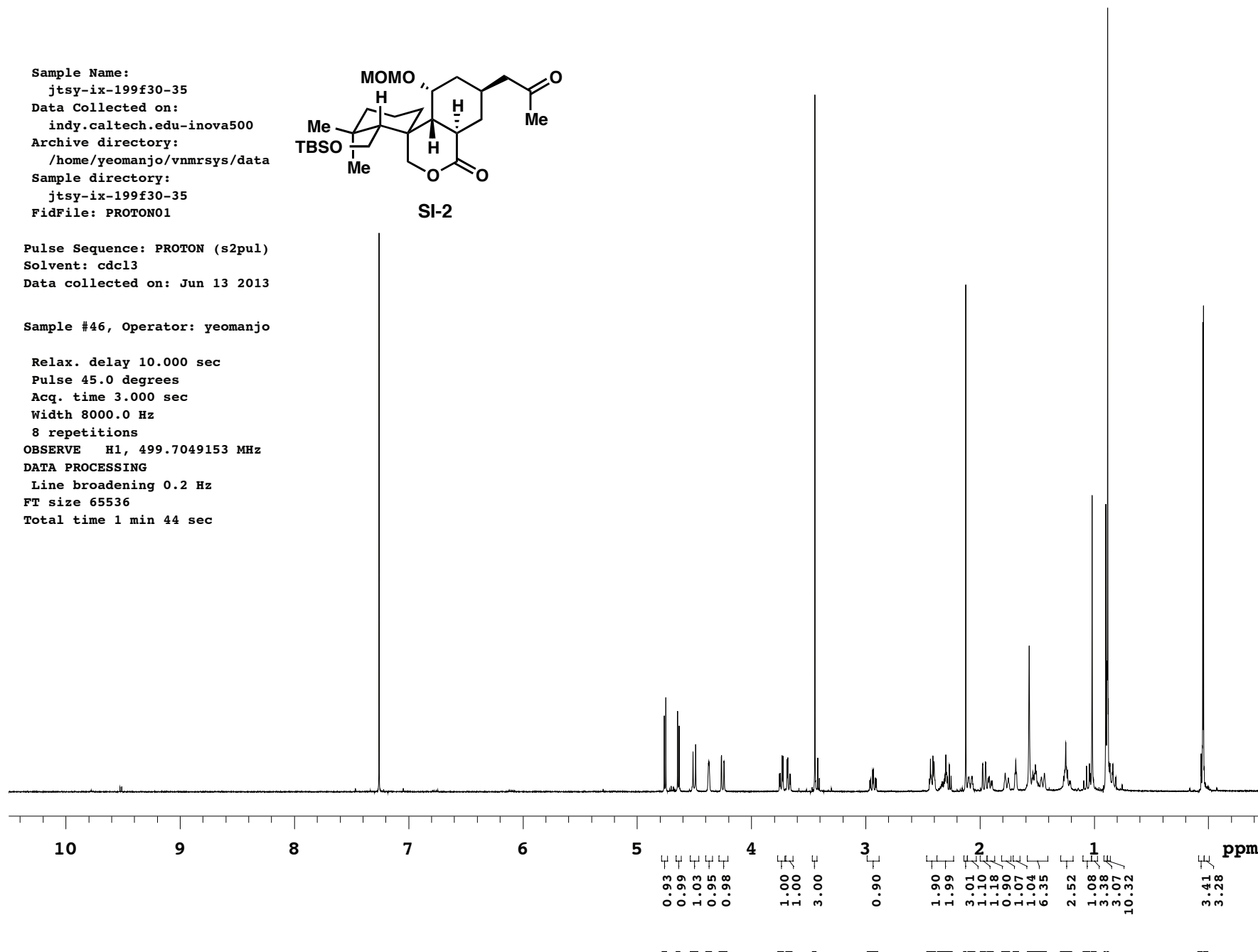
Sample Name:  
 jtsy-ix-199f30-35  
 Data Collected on:  
 indy.caltech.edu-inova500  
 Archive directory:  
 /home/yeomanjo/vnmrsys/data  
 Sample directory:  
 jtsy-ix-199f30-35  
 FidFile: PROTON01



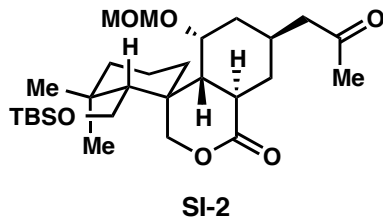
Pulse Sequence: PROTON (s2pul)  
 Solvent: cdcl3  
 Data collected on: Jun 13 2013

Sample #46, Operator: yeomanjo

Relax. delay 10.000 sec  
 Pulse 45.0 degrees  
 Acq. time 3.000 sec  
 Width 8000.0 Hz  
 8 repetitions  
 OBSERVE H1, 499.7049153 MHz  
 DATA PROCESSING  
 Line broadening 0.2 Hz  
 FT size 65536  
 Total time 1 min 44 sec



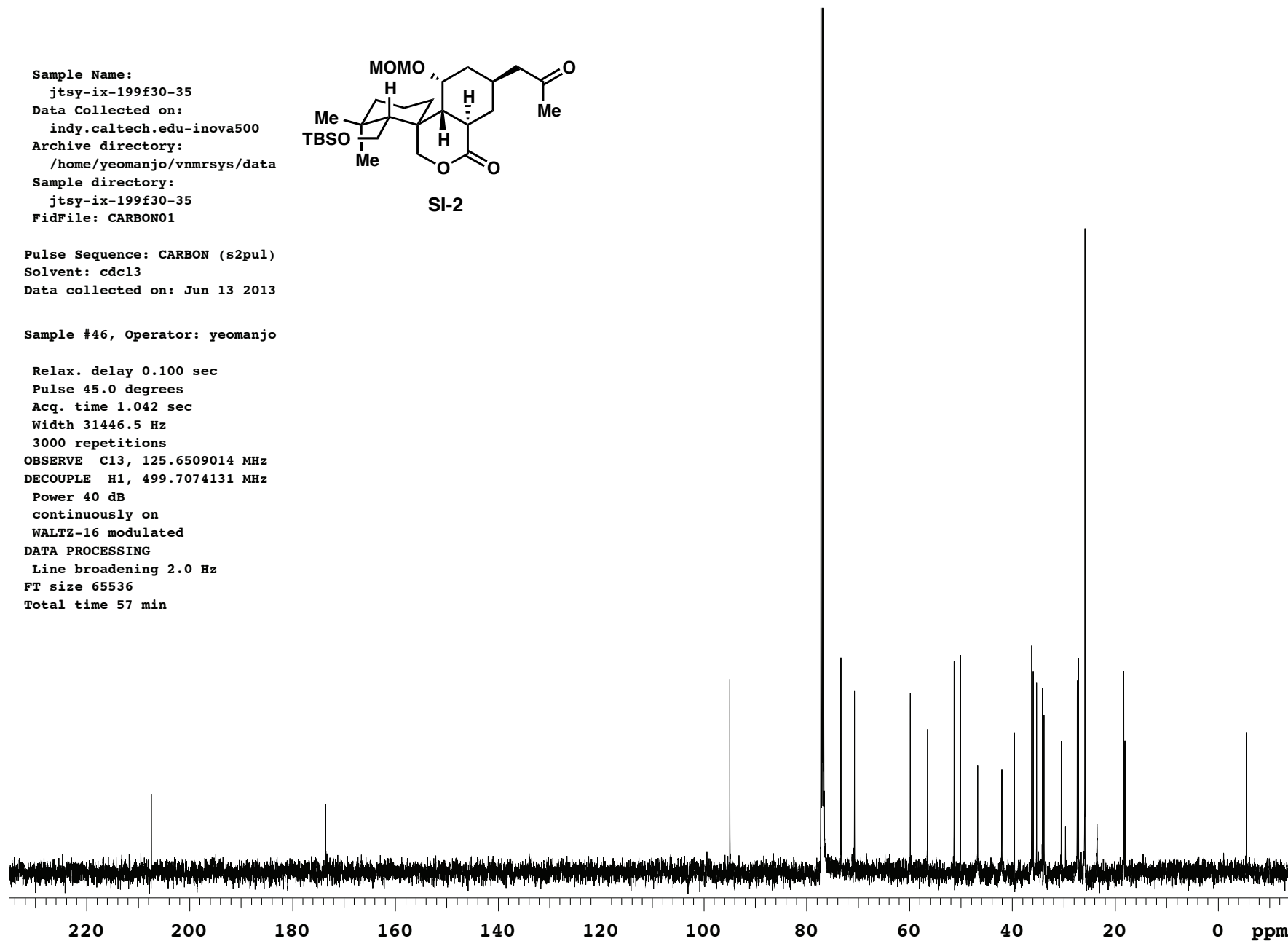
Sample Name:  
 jtsy-ix-199f30-35  
 Data Collected on:  
 indy.caltech.edu-inova500  
 Archive directory:  
 /home/yeomanjo/vnmrsys/data  
 Sample directory:  
 jtsy-ix-199f30-35  
 FidFile: CARBON01



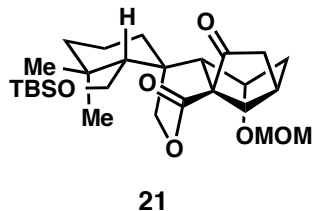
Pulse Sequence: CARBON (s2pul)  
 Solvent: cdcl3  
 Data collected on: Jun 13 2013

Sample #46, Operator: yeomanjo

Relax. delay 0.100 sec  
 Pulse 45.0 degrees  
 Acq. time 1.042 sec  
 Width 31446.5 Hz  
 3000 repetitions  
 OBSERVE C13, 125.6509014 MHz  
 DECOUPLE H1, 499.7074131 MHz  
 Power 40 dB  
 continuously on  
 WALTZ-16 modulated  
 DATA PROCESSING  
 Line broadening 2.0 Hz  
 FT size 65536  
 Total time 57 min



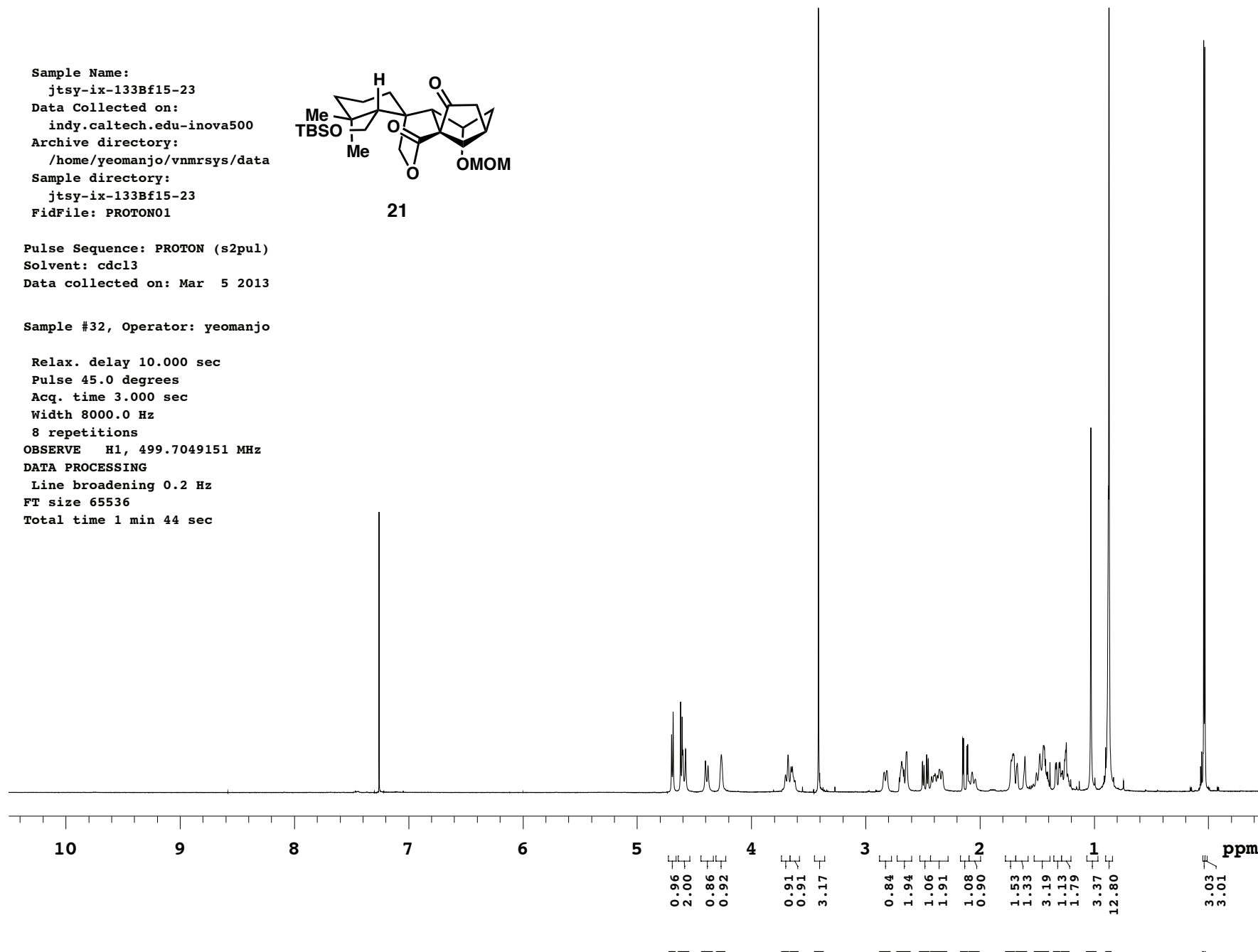
Sample Name:  
 jtsy-ix-133Bf15-23  
 Data Collected on:  
 indy.caltech.edu-inova500  
 Archive directory:  
 /home/yeomanjo/vnmrsys/data  
 Sample directory:  
 jtsy-ix-133Bf15-23  
 FidFile: PROTON01



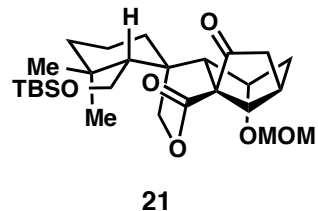
Pulse Sequence: PROTON (s2pul)  
 Solvent: cdcl3  
 Data collected on: Mar 5 2013

Sample #32, Operator: yeomanjo

Relax. delay 10.000 sec  
 Pulse 45.0 degrees  
 Acq. time 3.000 sec  
 Width 8000.0 Hz  
 8 repetitions  
 OBSERVE H1, 499.7049151 MHz  
 DATA PROCESSING  
 Line broadening 0.2 Hz  
 FT size 65536  
 Total time 1 min 44 sec



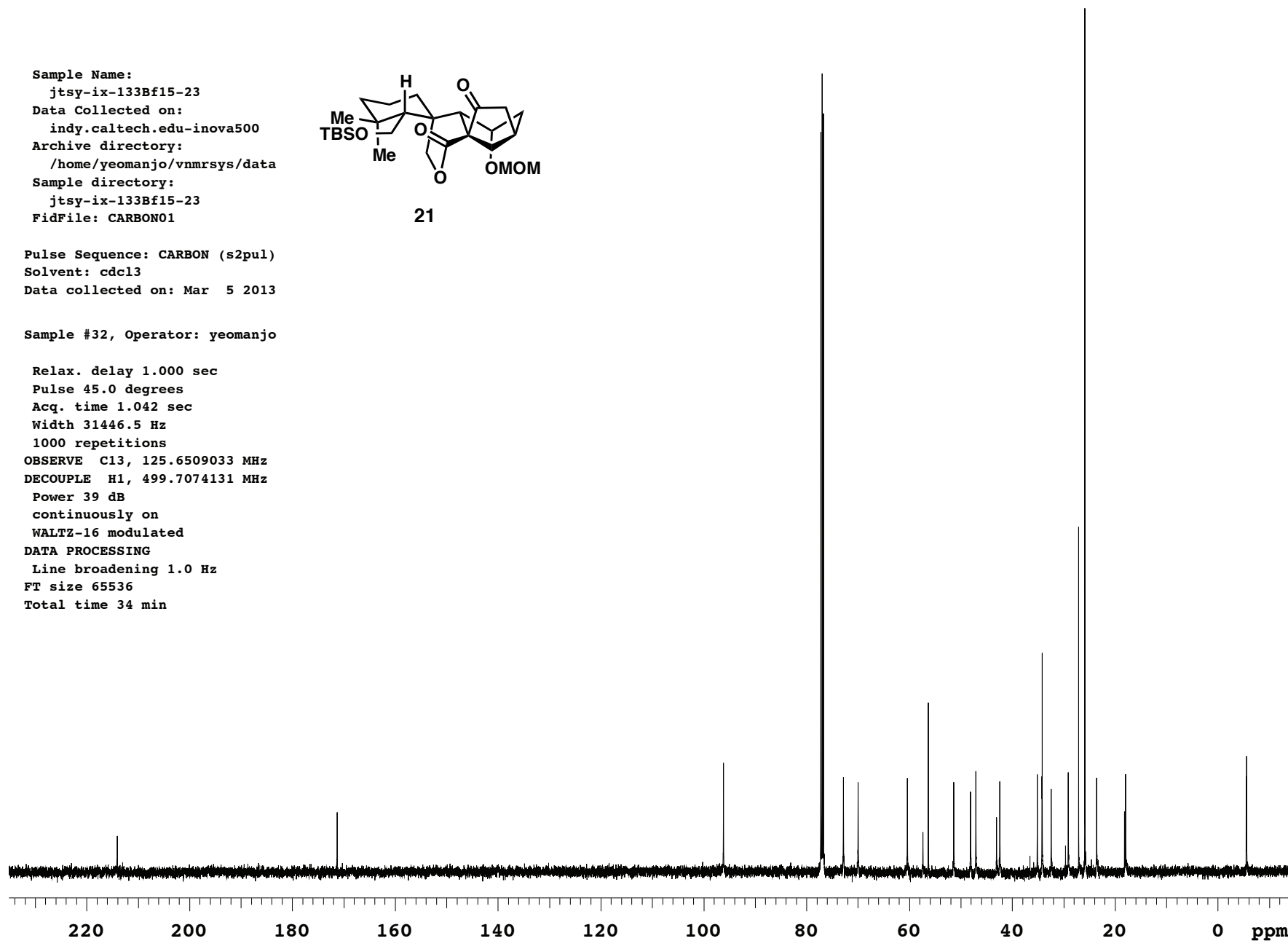
Sample Name:  
 jtsy-ix-133Bf15-23  
 Data Collected on:  
 indy.caltech.edu-inova500  
 Archive directory:  
 /home/yeomanjo/vnmrsys/data  
 Sample directory:  
 jtsy-ix-133Bf15-23  
 FidFile: CARBON01



Pulse Sequence: CARBON (s2pul)  
 Solvent: cdcl3  
 Data collected on: Mar 5 2013

Sample #32, Operator: yeomanjo

Relax. delay 1.000 sec  
 Pulse 45.0 degrees  
 Acq. time 1.042 sec  
 Width 31446.5 Hz  
 1000 repetitions  
 OBSERVE C13, 125.6509033 MHz  
 DECOUPLE H1, 499.7074131 MHz  
 Power 39 dB  
 continuously on  
 WALTZ-16 modulated  
 DATA PROCESSING  
 Line broadening 1.0 Hz  
 FT size 65536  
 Total time 34 min

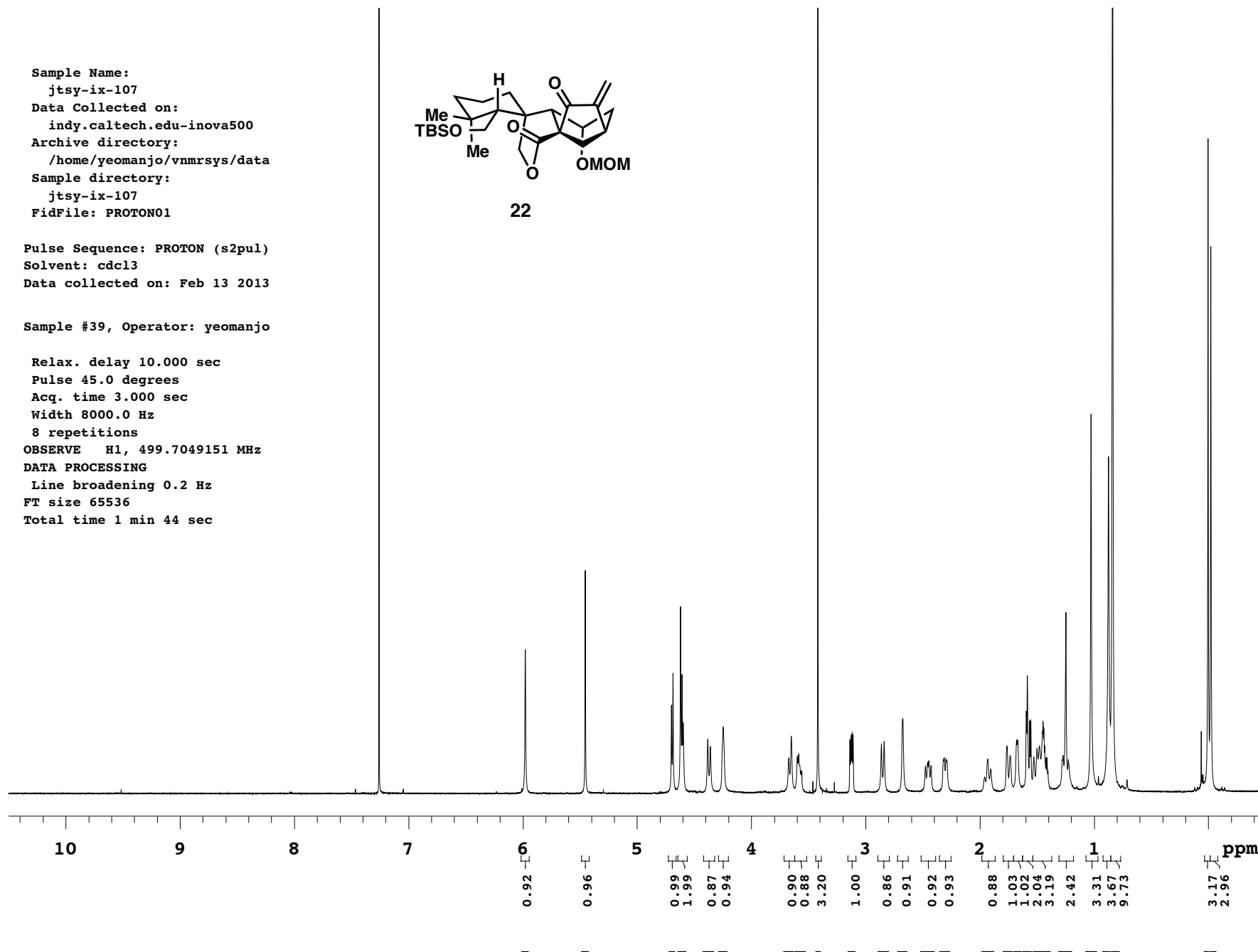
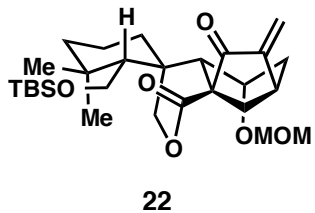


Sample Name:  
jtsy-ix-107  
Data Collected on:  
indy.caltech.edu-inova500  
Archive directory:  
/home/yeomanjo/vnmrsys/data  
Sample directory:  
jtsy-ix-107  
FidFile: PROTON01

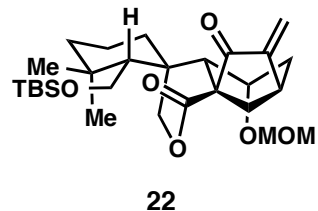
Pulse Sequence: PROTON (s2pul)  
Solvent: cdcl3  
Data collected on: Feb 13 2013

Sample #39, Operator: yeomanjo

Relax. delay 10.000 sec  
Pulse 45.0 degrees  
Acq. time 3.000 sec  
Width 8000.0 Hz  
8 repetitions  
OBSERVE H1, 499.7049151 MHz  
DATA PROCESSING  
Line broadening 0.2 Hz  
FT size 65536  
Total time 1 min 44 sec



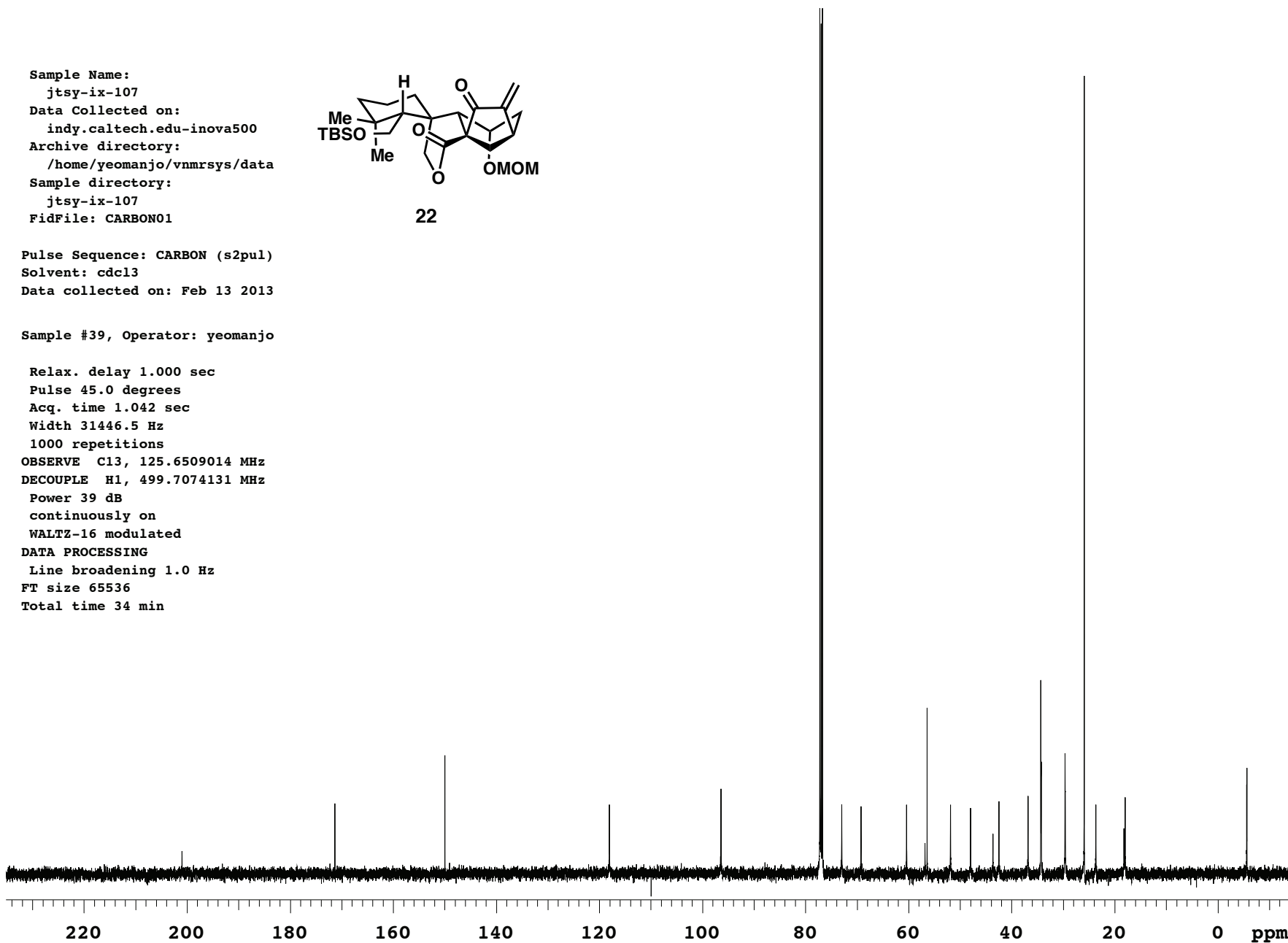
Sample Name:  
jtsy-ix-107  
Data Collected on:  
indy.caltech.edu-inova500  
Archive directory:  
/home/yeomanjo/vnmrsys/data  
Sample directory:  
jtsy-ix-107  
FidFile: CARBON01



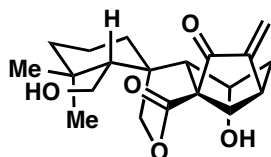
Pulse Sequence: CARBON (s2pul)  
Solvent: cdcl3  
Data collected on: Feb 13 2013

Sample #39, Operator: yeomanjo

Relax. delay 1.000 sec  
Pulse 45.0 degrees  
Acq. time 1.042 sec  
Width 31446.5 Hz  
1000 repetitions  
OBSERVE C13, 125.6509014 MHz  
DECOUPLE H1, 499.7074131 MHz  
Power 39 dB  
continuously on  
WALTZ-16 modulated  
DATA PROCESSING  
Line broadening 1.0 Hz  
FT size 65536  
Total time 34 min



Sample Name:  
 jtsy-ix-115f16-35  
 Data Collected on:  
 indy.caltech.edu-inova500  
 Archive directory:  
 /home/yeomanjo/vnmrsys/data  
 Sample directory:  
 jtsy-ix-115f16-35  
 FidFile: PROTON01

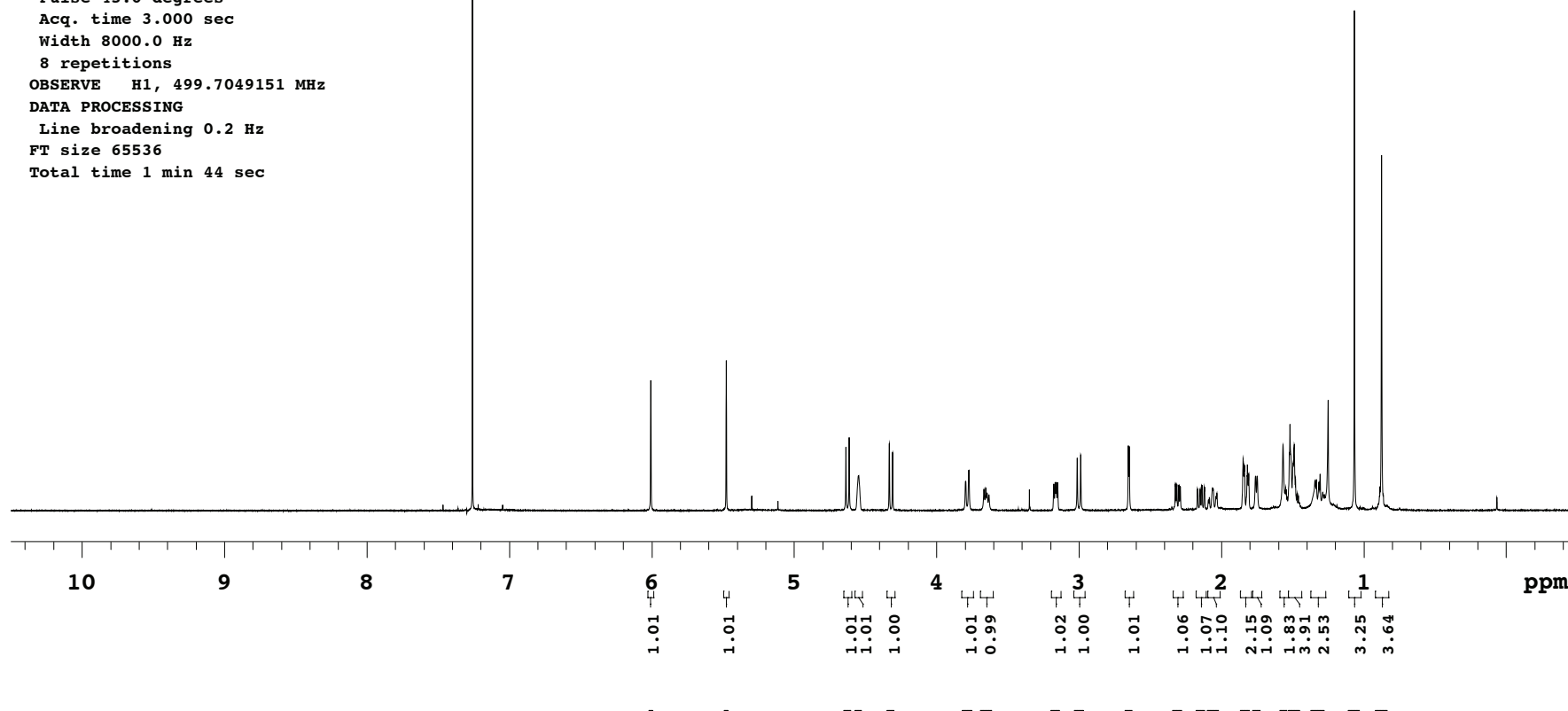


SI-3

Pulse Sequence: PROTON (s2pul)  
 Solvent: cdcl3  
 Data collected on: Feb 15 2013

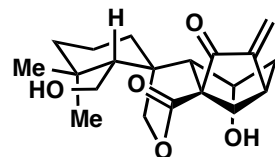
Sample #39, Operator: yeomanjo

Relax. delay 10.000 sec  
 Pulse 45.0 degrees  
 Acq. time 3.000 sec  
 Width 8000.0 Hz  
 8 repetitions  
 OBSERVE H1, 499.7049151 MHz  
 DATA PROCESSING  
 Line broadening 0.2 Hz  
 FT size 65536  
 Total time 1 min 44 sec





Sample Name:  
jtsy-ix-115f16-35  
Data Collected on:  
daytona.caltech.edu-inova500  
Archive directory:



SI-3

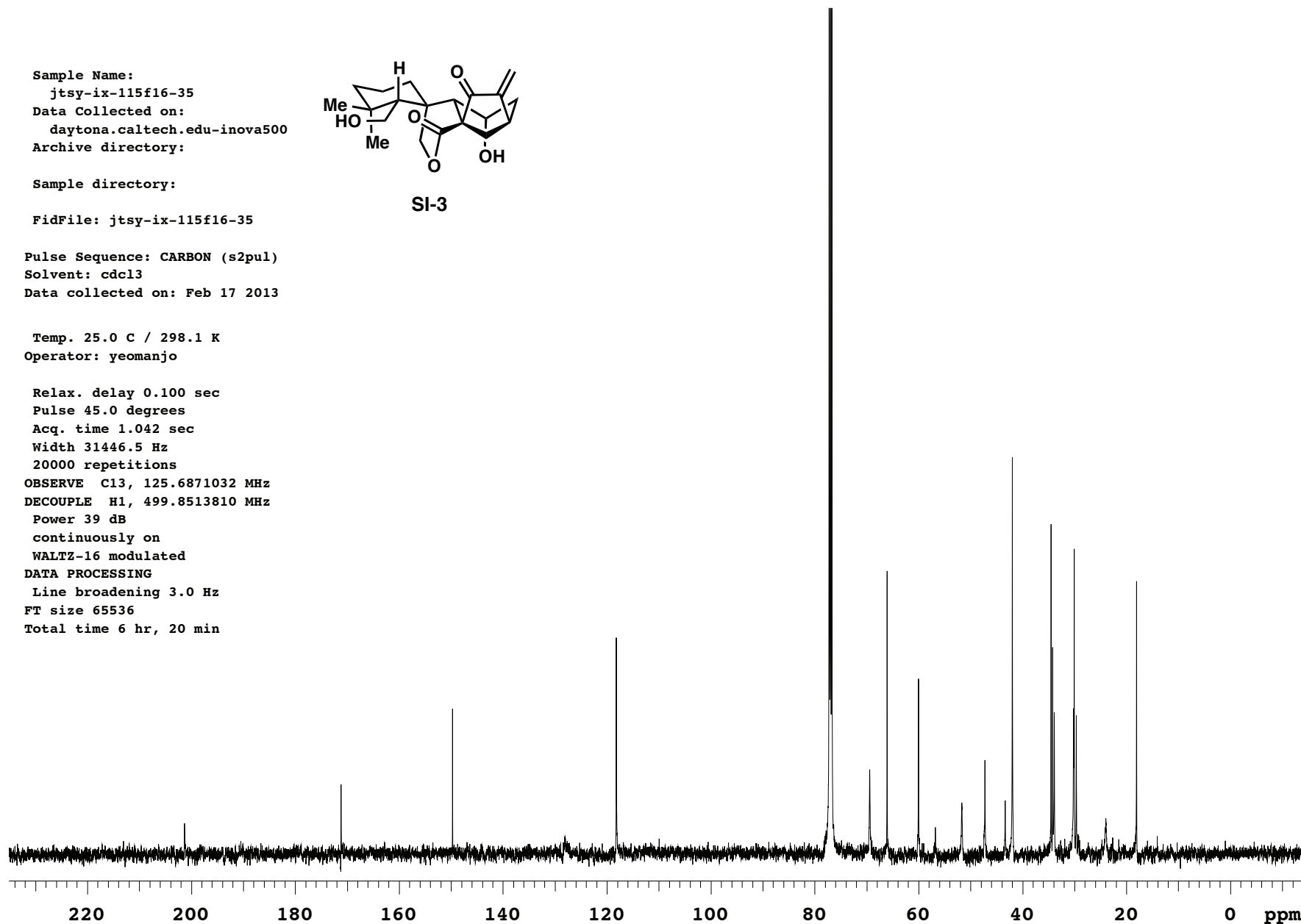
Sample directory:

FidFile: jtsy-ix-115f16-35

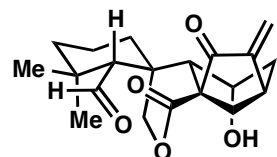
Pulse Sequence: CARBON (s2pul)  
Solvent: cdcl3  
Data collected on: Feb 17 2013

Temp. 25.0 C / 298.1 K  
Operator: yeomanjo

Relax. delay 0.100 sec  
Pulse 45.0 degrees  
Acq. time 1.042 sec  
Width 31446.5 Hz  
20000 repetitions  
OBSERVE C13, 125.6871032 MHz  
DECOUPLE H1, 499.8513810 MHz  
Power 39 dB  
continuously on  
WALTZ-16 modulated  
DATA PROCESSING  
Line broadening 3.0 Hz  
FT size 65536  
Total time 6 hr, 20 min



Sample Name:  
 jtsy-ix-143prep  
 Data Collected on:  
 fid.caltech.edu-inova600  
 Archive directory:  
 /home/yeomanjo/vnmrsys/data  
 Sample directory:  
 jtsy-ix-143prep  
 FidFile: PROTON01

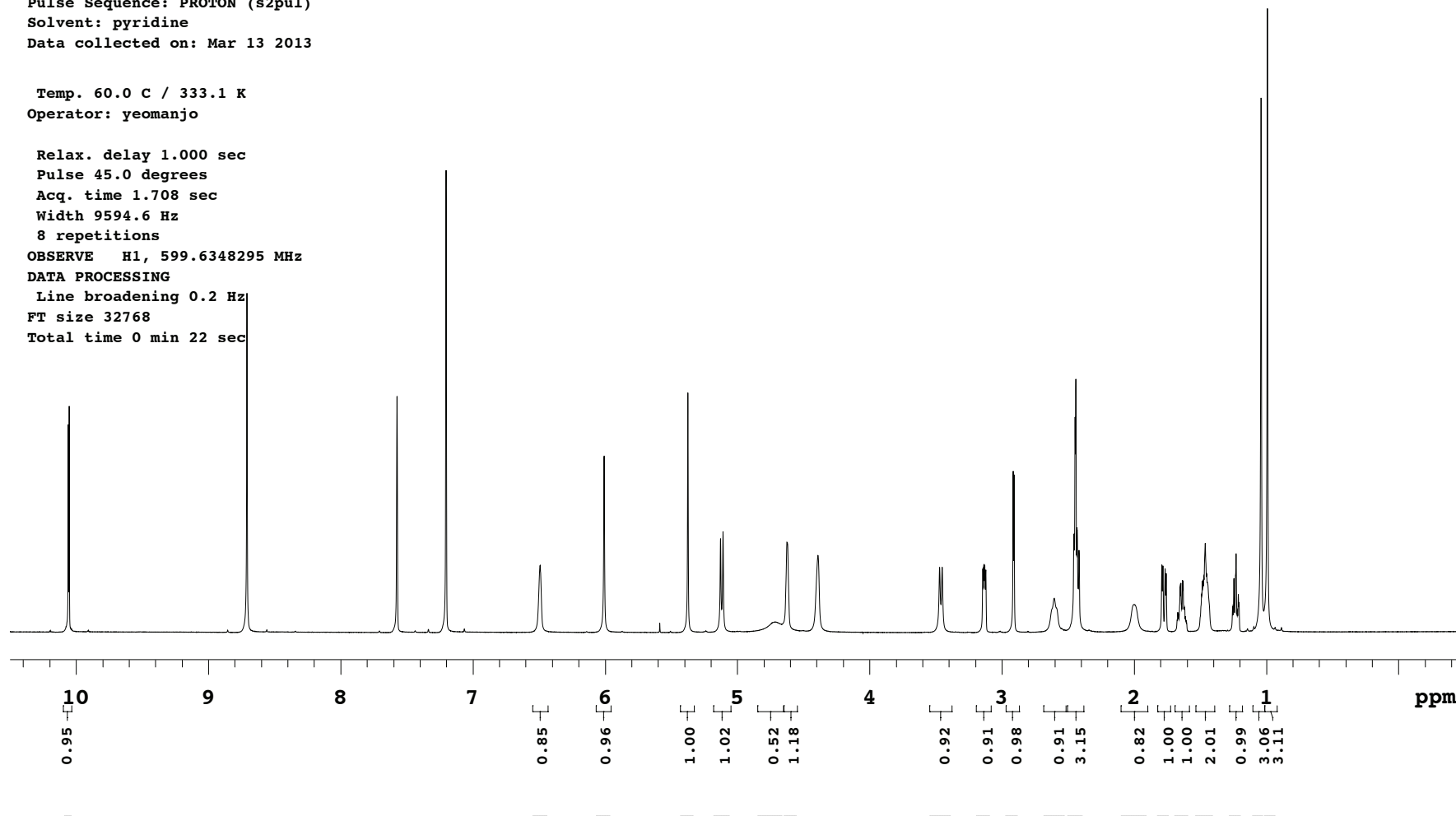


*(-)-trichorabdal A (1)*

Pulse Sequence: PROTON (s2pul)  
 Solvent: pyridine  
 Data collected on: Mar 13 2013

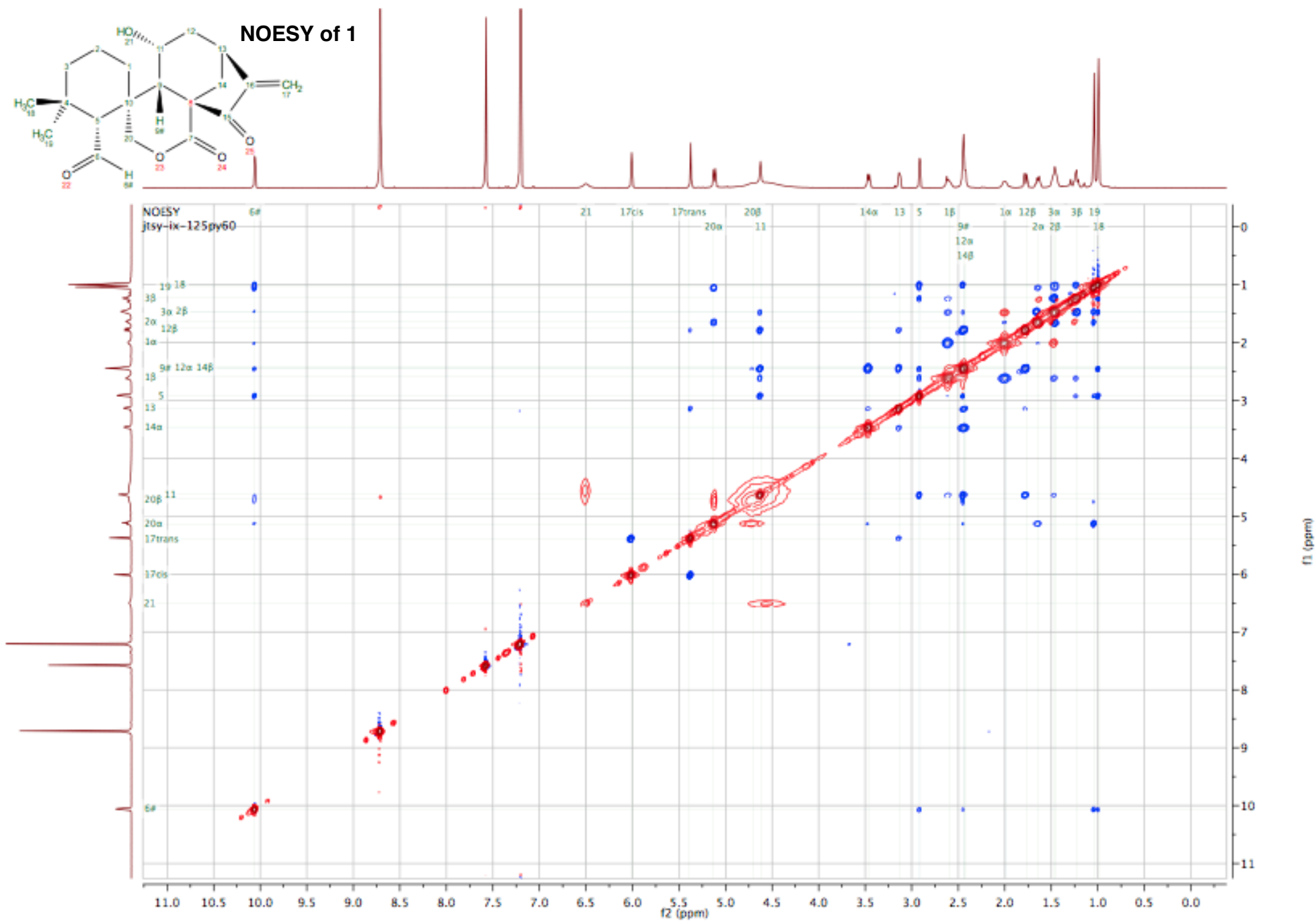
Temp. 60.0 C / 333.1 K  
 Operator: yeomanjo

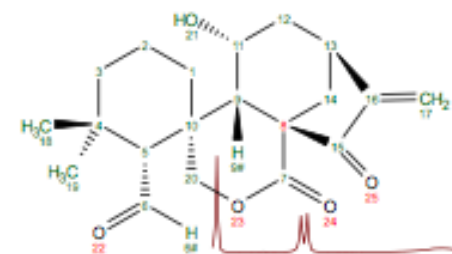
Relax. delay 1.000 sec  
 Pulse 45.0 degrees  
 Acq. time 1.708 sec  
 Width 9594.6 Hz  
 8 repetitions  
 OBSERVE H1, 599.6348295 MHz  
 DATA PROCESSING  
 Line broadening 0.2 Hz  
 FT size 32768  
 Total time 0 min 22 sec



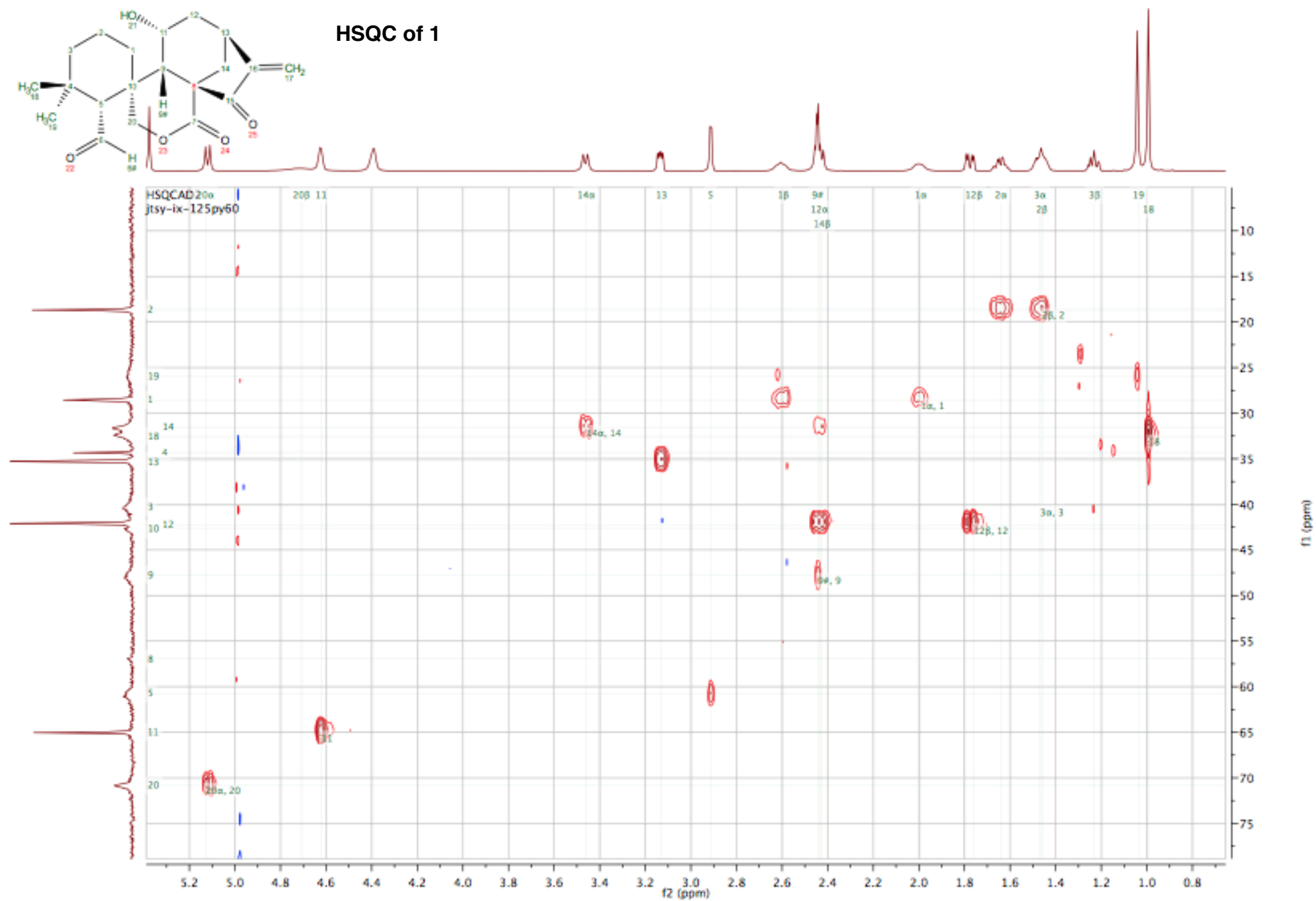




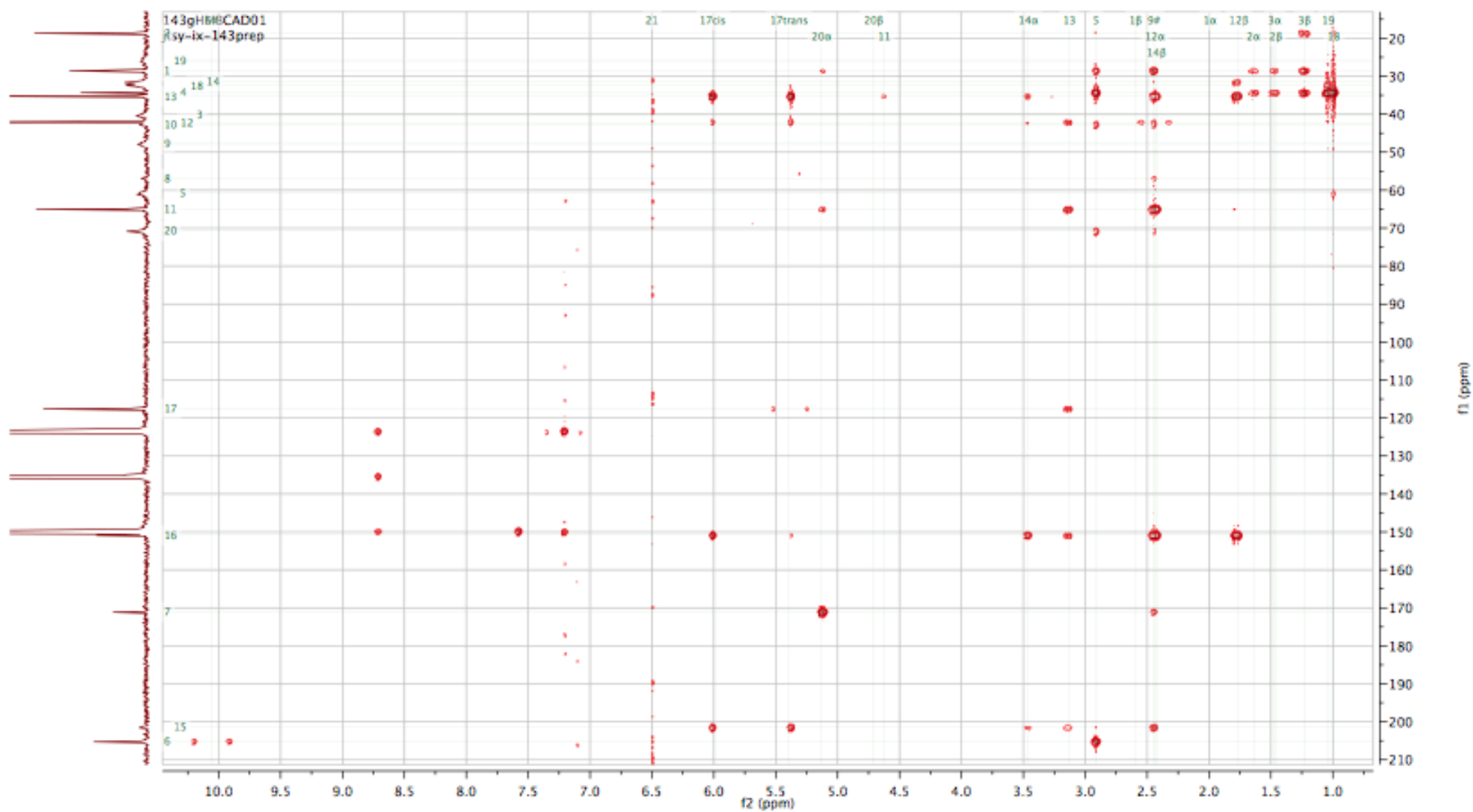
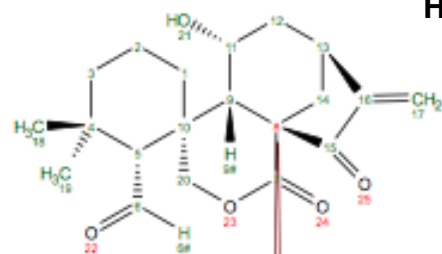




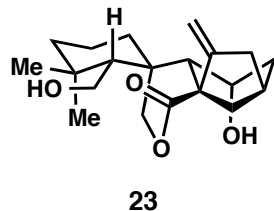
HSQC of 1



# HMBC of 1



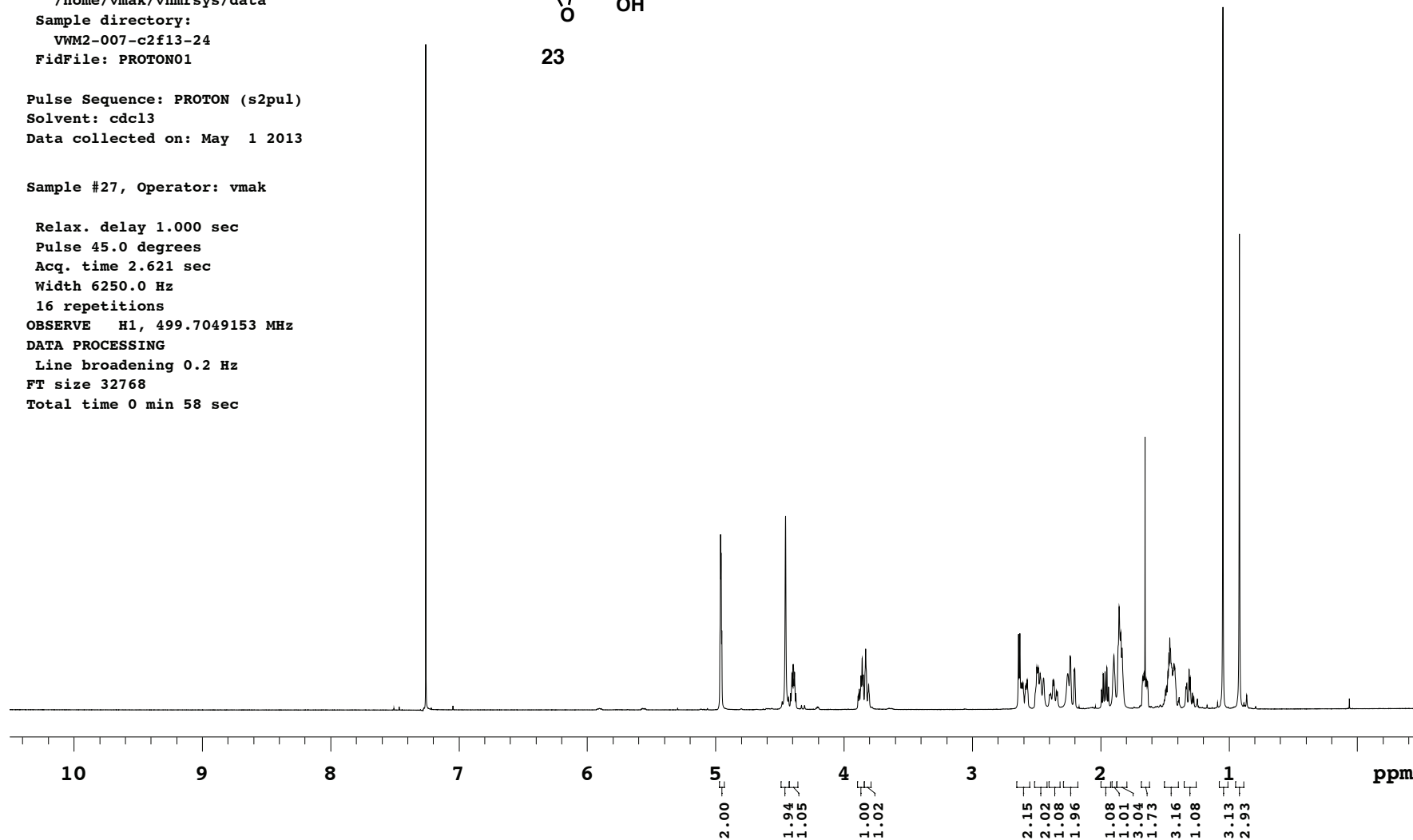
Sample Name:  
 VWM2-007-c2f13-24  
 Data Collected on:  
 indy.caltech.edu-inova500  
 Archive directory:  
 /home/vmak/vnmrsys/data  
 Sample directory:  
 VWM2-007-c2f13-24  
 FidFile: PROTON01



Pulse Sequence: PROTON (s2pul)  
 Solvent: cdcl3  
 Data collected on: May 1 2013

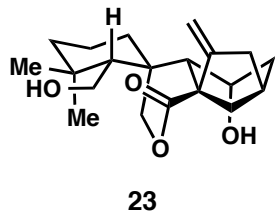
Sample #27, Operator: vmak

Relax. delay 1.000 sec  
 Pulse 45.0 degrees  
 Acq. time 2.621 sec  
 Width 6250.0 Hz  
 16 repetitions  
 OBSERVE H1, 499.7049153 MHz  
 DATA PROCESSING  
 Line broadening 0.2 Hz  
 FT size 32768  
 Total time 0 min 58 sec





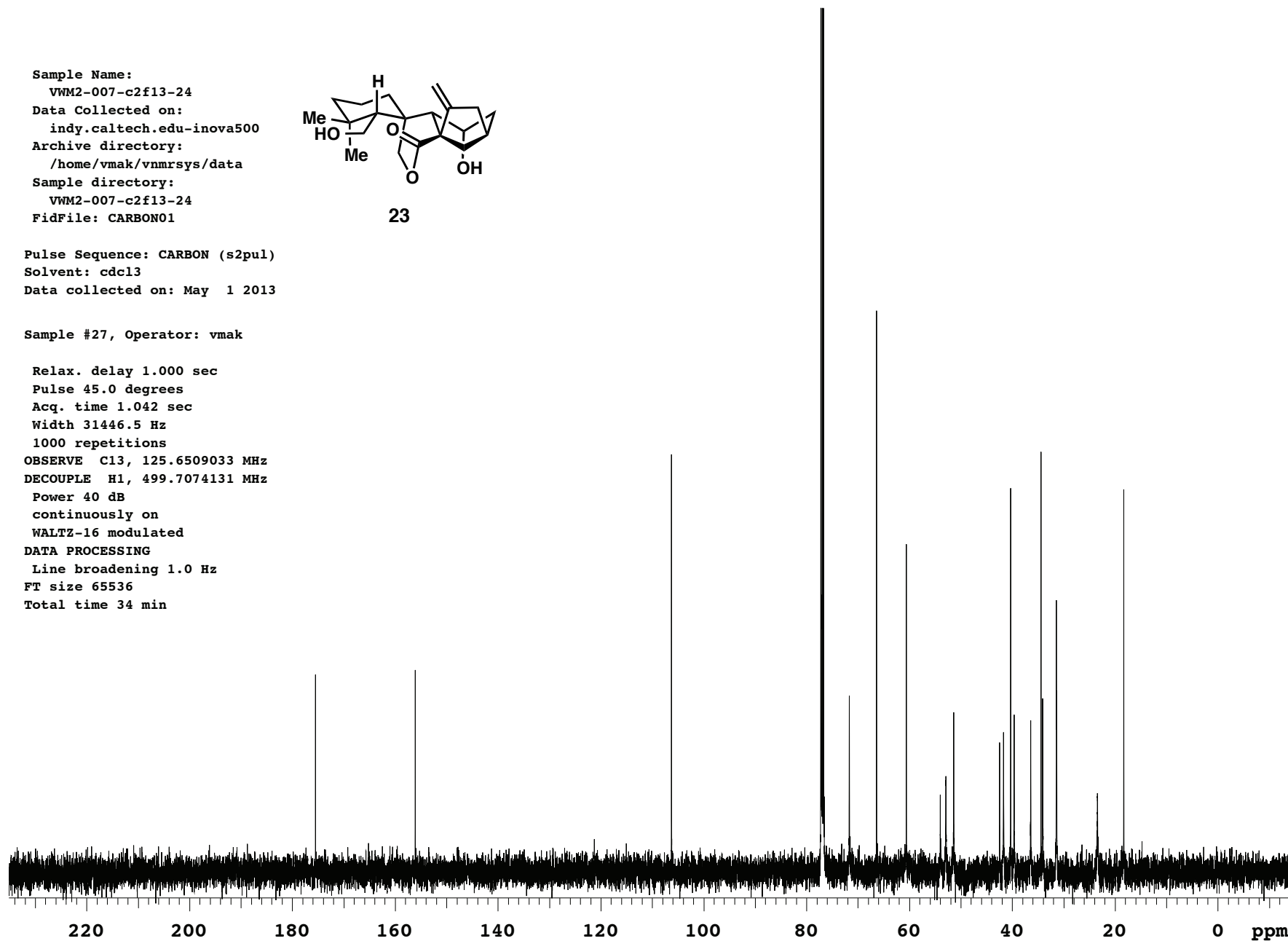
Sample Name:  
VWM2-007-c2f13-24  
Data Collected on:  
indy.caltech.edu-inova500  
Archive directory:  
/home/vmak/vnmrsys/data  
Sample directory:  
VWM2-007-c2f13-24  
FidFile: CARBON01



Pulse Sequence: CARBON (s2pul)  
Solvent: cdcl3  
Data collected on: May 1 2013

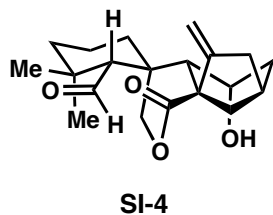
Sample #27, Operator: vmak

Relax. delay 1.000 sec  
Pulse 45.0 degrees  
Acq. time 1.042 sec  
Width 31446.5 Hz  
1000 repetitions  
OBSERVE C13, 125.6509033 MHz  
DECOUPLE H1, 499.7074131 MHz  
Power 40 dB  
continuously on  
WALTZ-16 modulated  
DATA PROCESSING  
Line broadening 1.0 Hz  
FT size 65536  
Total time 34 min



VWM2-019

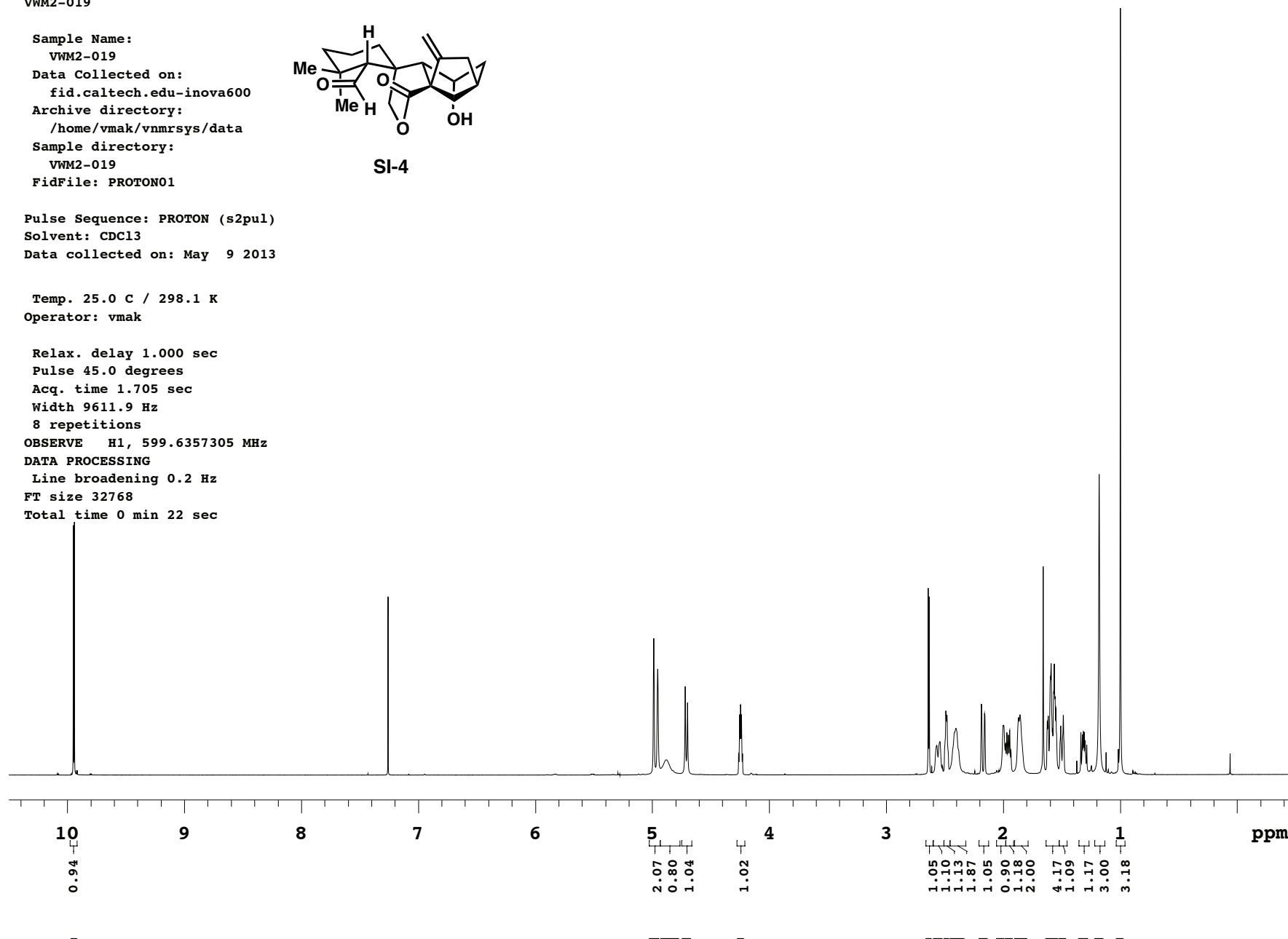
Sample Name:  
VWM2-019  
Data Collected on:  
fid.caltech.edu-inova600  
Archive directory:  
/home/vmak/vnmrsys/data  
Sample directory:  
VWM2-019  
FidFile: PROTON01



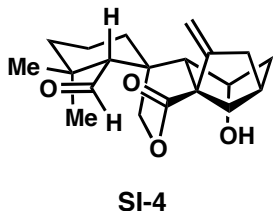
Pulse Sequence: PROTON (s2pul)  
Solvent: CDCl3  
Data collected on: May 9 2013

Temp. 25.0 C / 298.1 K  
Operator: vmak

Relax. delay 1.000 sec  
Pulse 45.0 degrees  
Acq. time 1.705 sec  
Width 9611.9 Hz  
8 repetitions  
OBSERVE H1, 599.6357305 MHz  
DATA PROCESSING  
Line broadening 0.2 Hz  
FT size 32768  
Total time 0 min 22 sec



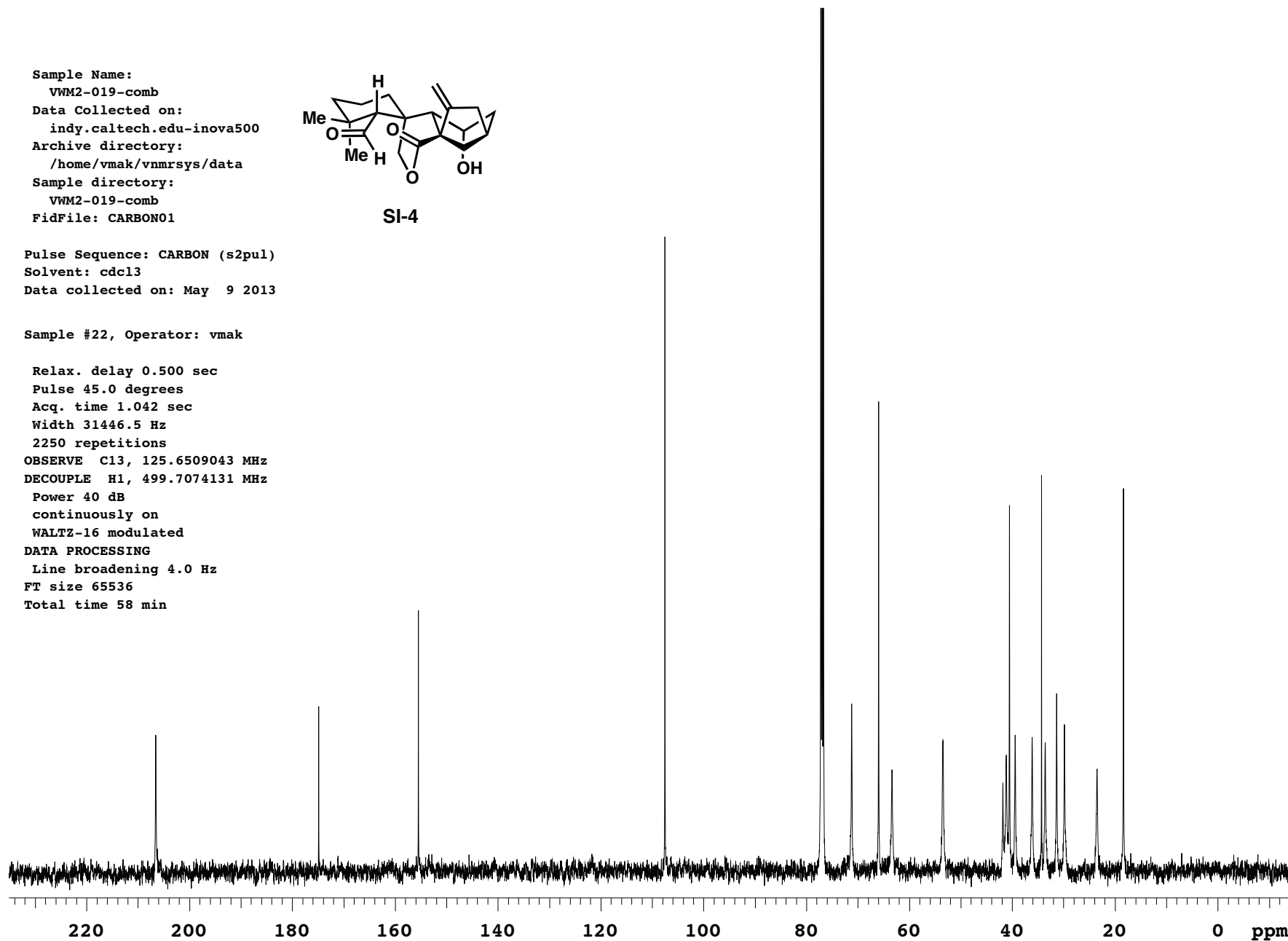
Sample Name:  
VWM2-019-comb  
Data Collected on:  
indy.caltech.edu-inova500  
Archive directory:  
/home/vmak/vnmrsys/data  
Sample directory:  
VWM2-019-comb  
FidFile: CARBON01



Pulse Sequence: CARBON (s2pul)  
Solvent: cdcl3  
Data collected on: May 9 2013

Sample #22, Operator: vmak

Relax. delay 0.500 sec  
Pulse 45.0 degrees  
Acq. time 1.042 sec  
Width 31446.5 Hz  
2250 repetitions  
OBSERVE C13, 125.6509043 MHz  
DECOUPLE H1, 499.7074131 MHz  
Power 40 dB  
continuously on  
WALTZ-16 modulated  
DATA PROCESSING  
Line broadening 4.0 Hz  
FT size 65536  
Total time 58 min

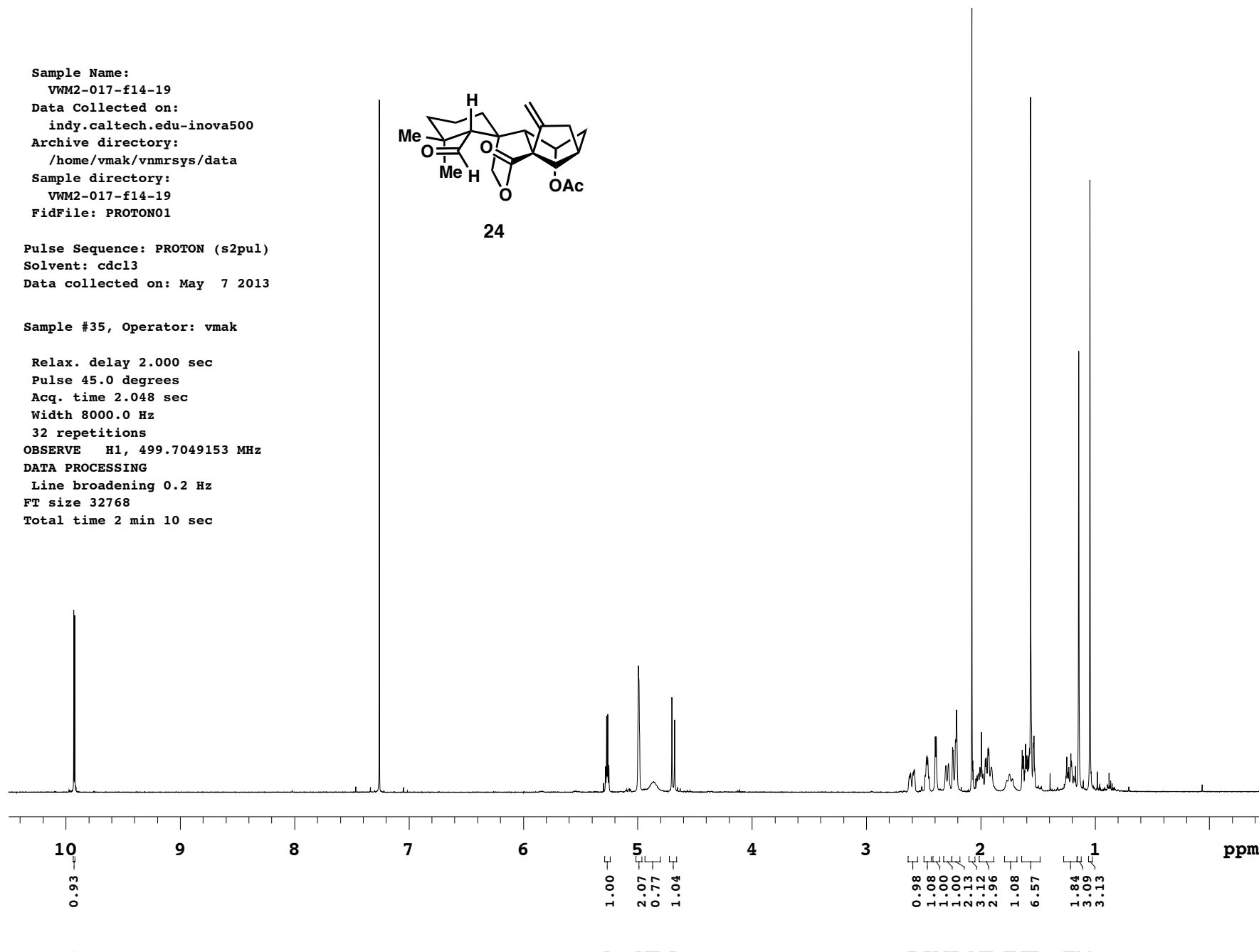
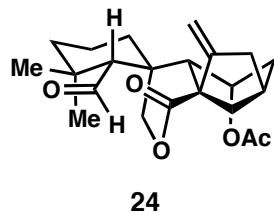


Sample Name:  
 VWM2-017-f14-19  
 Data Collected on:  
 indy.caltech.edu-inova500  
 Archive directory:  
 /home/vmak/vnmrsys/data  
 Sample directory:  
 VWM2-017-f14-19  
 FidFile: PROTON01

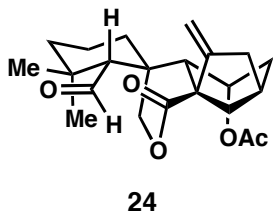
Pulse Sequence: PROTON (s2pul)  
 Solvent: cdcl3  
 Data collected on: May 7 2013

Sample #35, Operator: vmak

Relax. delay 2.000 sec  
 Pulse 45.0 degrees  
 Acq. time 2.048 sec  
 Width 8000.0 Hz  
 32 repetitions  
 OBSERVE H1, 499.7049153 MHz  
 DATA PROCESSING  
 Line broadening 0.2 Hz  
 FT size 32768  
 Total time 2 min 10 sec



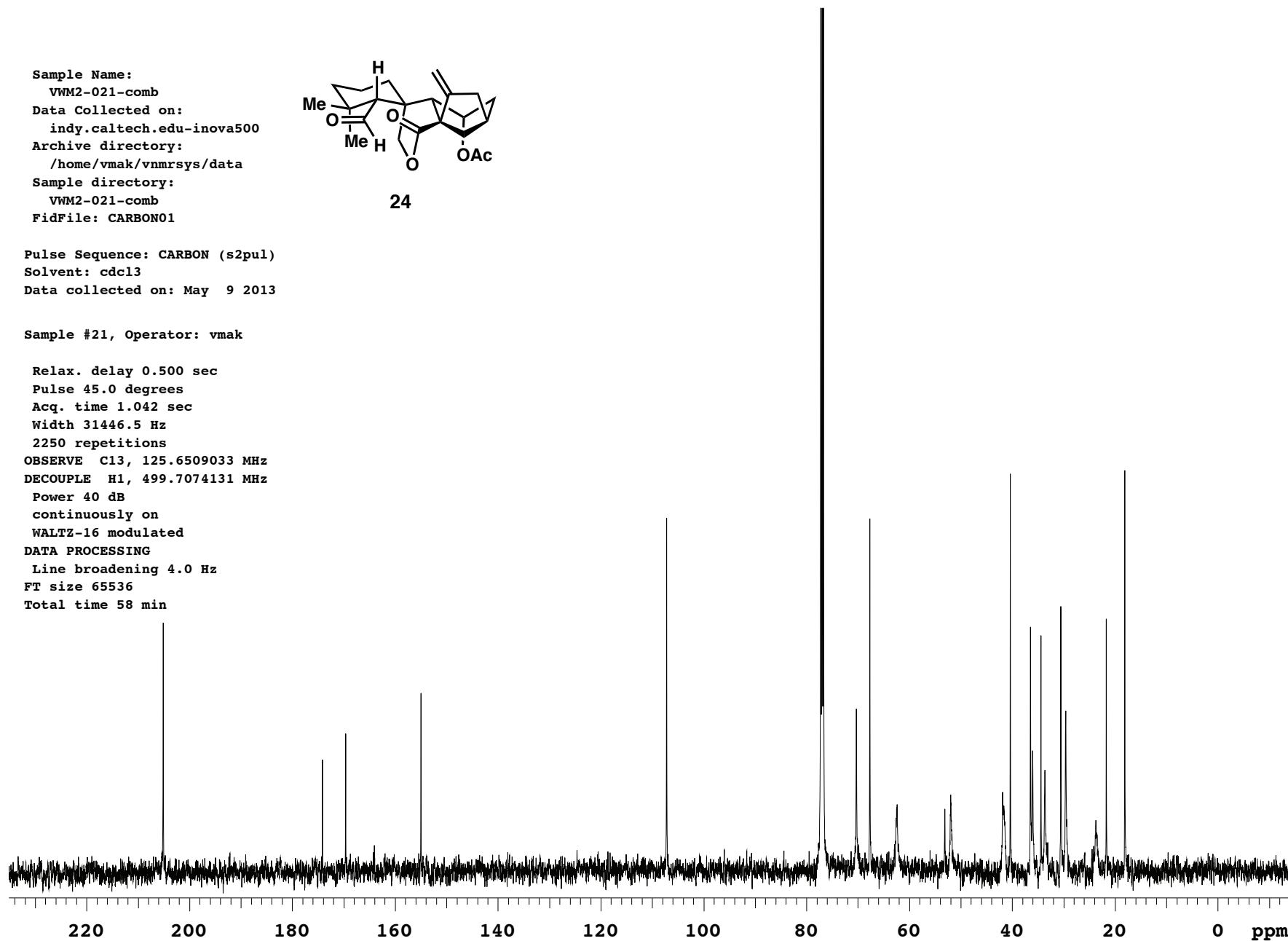
Sample Name:  
VWM2-021-comb  
Data Collected on:  
indy.caltech.edu-inova500  
Archive directory:  
/home/vmak/vnmrsys/data  
Sample directory:  
VWM2-021-comb  
FidFile: CARBON01



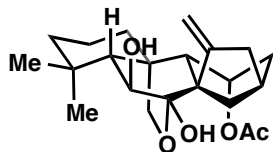
Pulse Sequence: CARBON (s2pul)  
Solvent: cdcl3  
Data collected on: May 9 2013

Sample #21, Operator: vmak

Relax. delay 0.500 sec  
Pulse 45.0 degrees  
Acq. time 1.042 sec  
Width 31446.5 Hz  
2250 repetitions  
OBSERVE C13, 125.6509033 MHz  
DECOUPLE H1, 499.7074131 MHz  
Power 40 dB  
continuously on  
WALTZ-16 modulated  
DATA PROCESSING  
Line broadening 4.0 Hz  
FT size 65536  
Total time 58 min



Sample Name:  
VWM2-033c  
Data Collected on:  
indy.caltech.edu-inova500  
Archive directory:  
/home/vmak/vnmrsys/data  
Sample directory:  
VWM2-033c  
FidFile: PROTON01

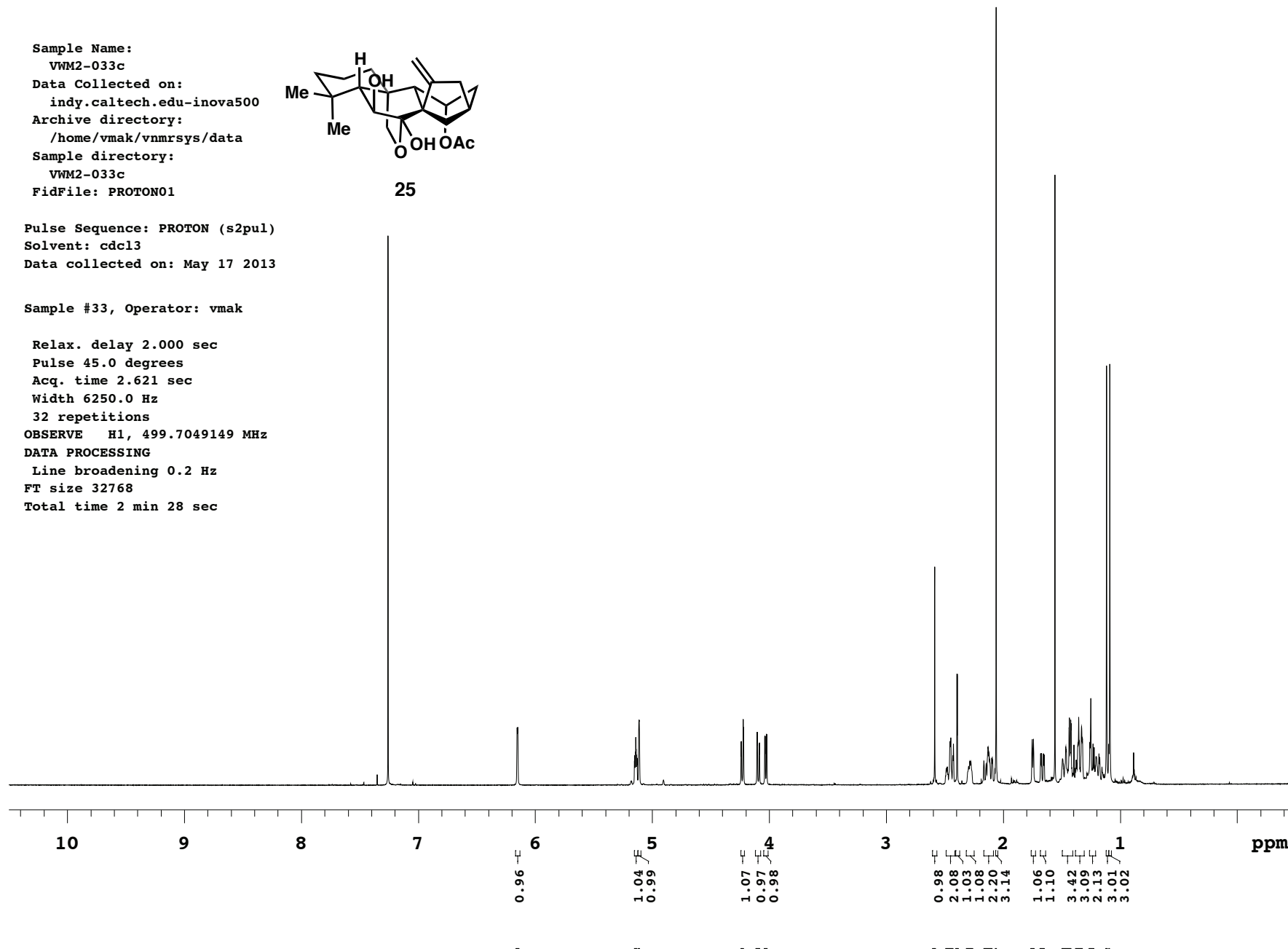


25

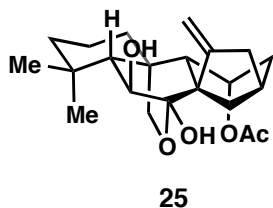
Pulse Sequence: PROTON (s2pul)  
Solvent: cdcl3  
Data collected on: May 17 2013

Sample #33, Operator: vmak

Relax. delay 2.000 sec  
Pulse 45.0 degrees  
Acq. time 2.621 sec  
Width 6250.0 Hz  
32 repetitions  
OBSERVE H1, 499.7049149 MHz  
DATA PROCESSING  
Line broadening 0.2 Hz  
FT size 32768  
Total time 2 min 28 sec



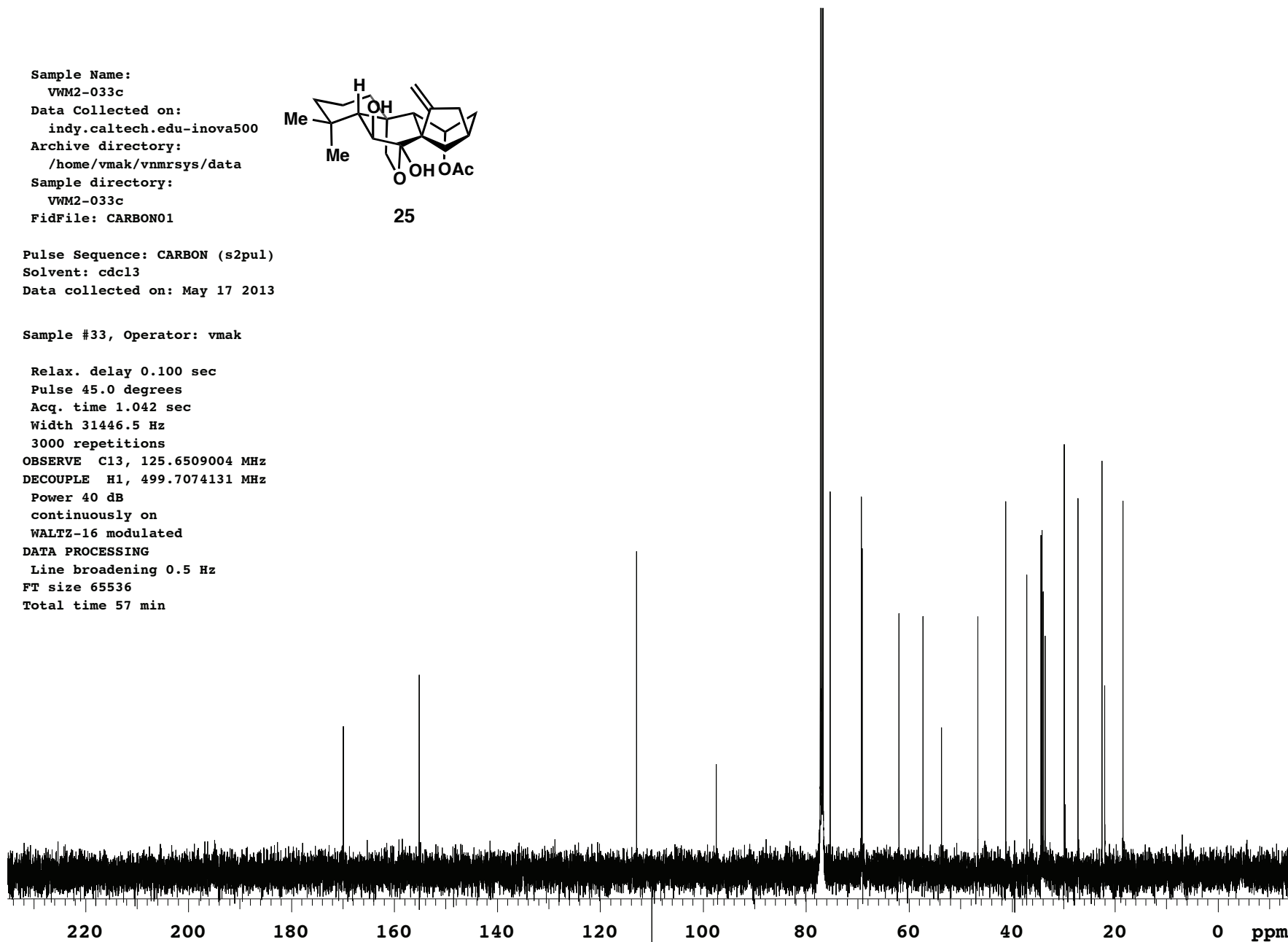
Sample Name:  
VWM2-033c  
Data Collected on:  
indy.caltech.edu-inova500  
Archive directory:  
/home/vmak/vnmrsys/data  
Sample directory:  
VWM2-033c  
FidFile: CARBON01



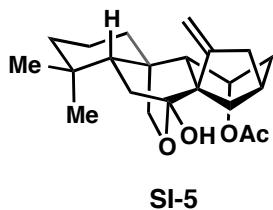
Pulse Sequence: CARBON (s2pul)  
Solvent: cdcl3  
Data collected on: May 17 2013

Sample #33, Operator: vmak

Relax. delay 0.100 sec  
Pulse 45.0 degrees  
Acq. time 1.042 sec  
Width 31446.5 Hz  
3000 repetitions  
OBSERVE C13, 125.6509004 MHz  
DECOUPLE H1, 499.7074131 MHz  
Power 40 dB  
continuously on  
WALTZ-16 modulated  
DATA PROCESSING  
Line broadening 0.5 Hz  
FT size 65536  
Total time 57 min



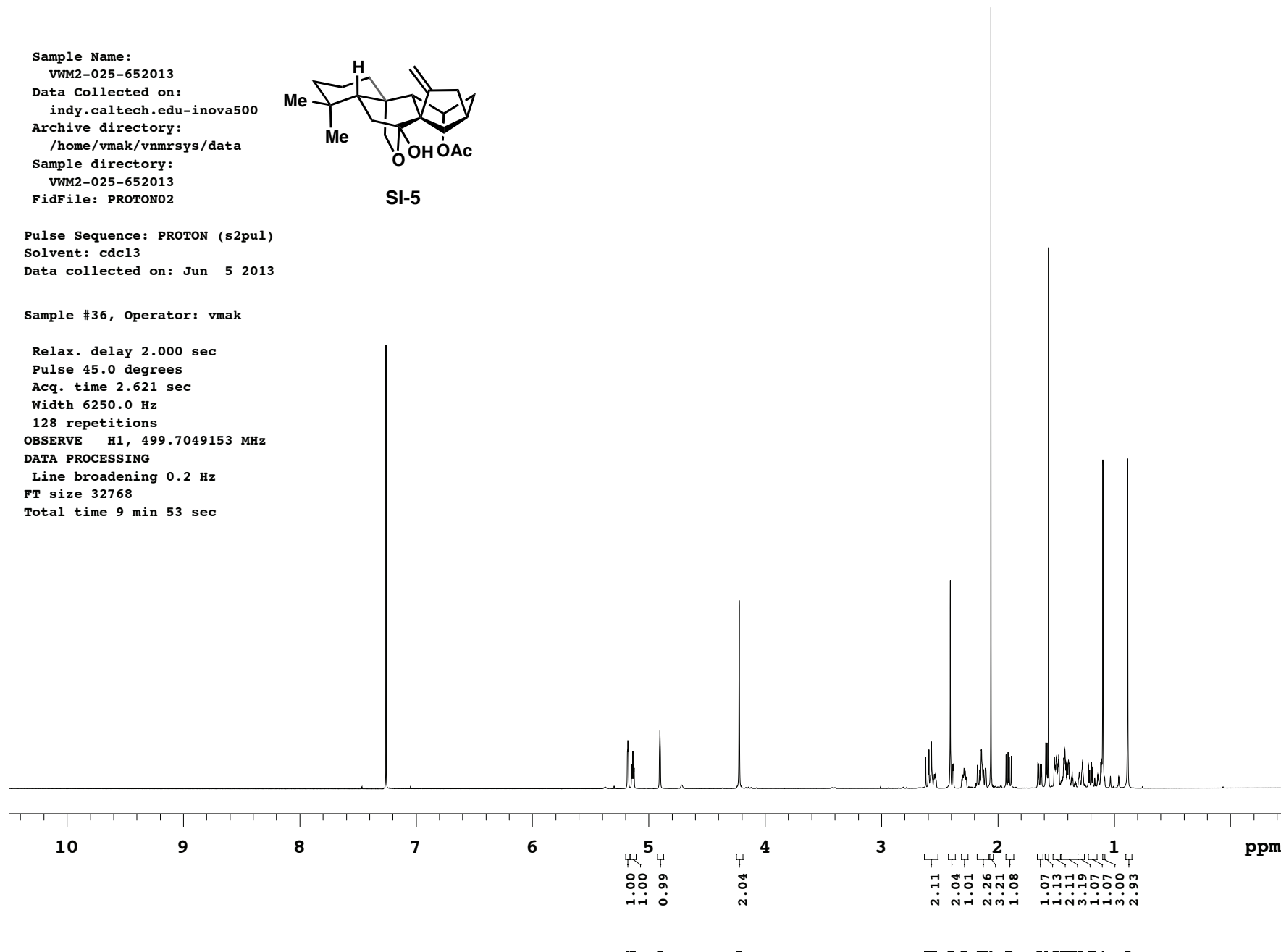
Sample Name:  
VWM2-025-652013  
Data Collected on:  
indy.caltech.edu-inova500  
Archive directory:  
/home/vmak/vnmrsys/data  
Sample directory:  
VWM2-025-652013  
FidFile: PROTON02



Pulse Sequence: PROTON (s2pul)  
Solvent: cdcl3  
Data collected on: Jun 5 2013

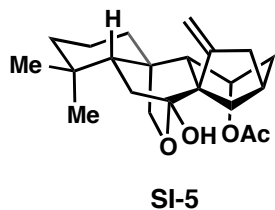
Sample #36, Operator: vmak

Relax. delay 2.000 sec  
Pulse 45.0 degrees  
Acq. time 2.621 sec  
Width 6250.0 Hz  
128 repetitions  
OBSERVE H1, 499.7049153 MHz  
DATA PROCESSING  
Line broadening 0.2 Hz  
FT size 32768  
Total time 9 min 53 sec





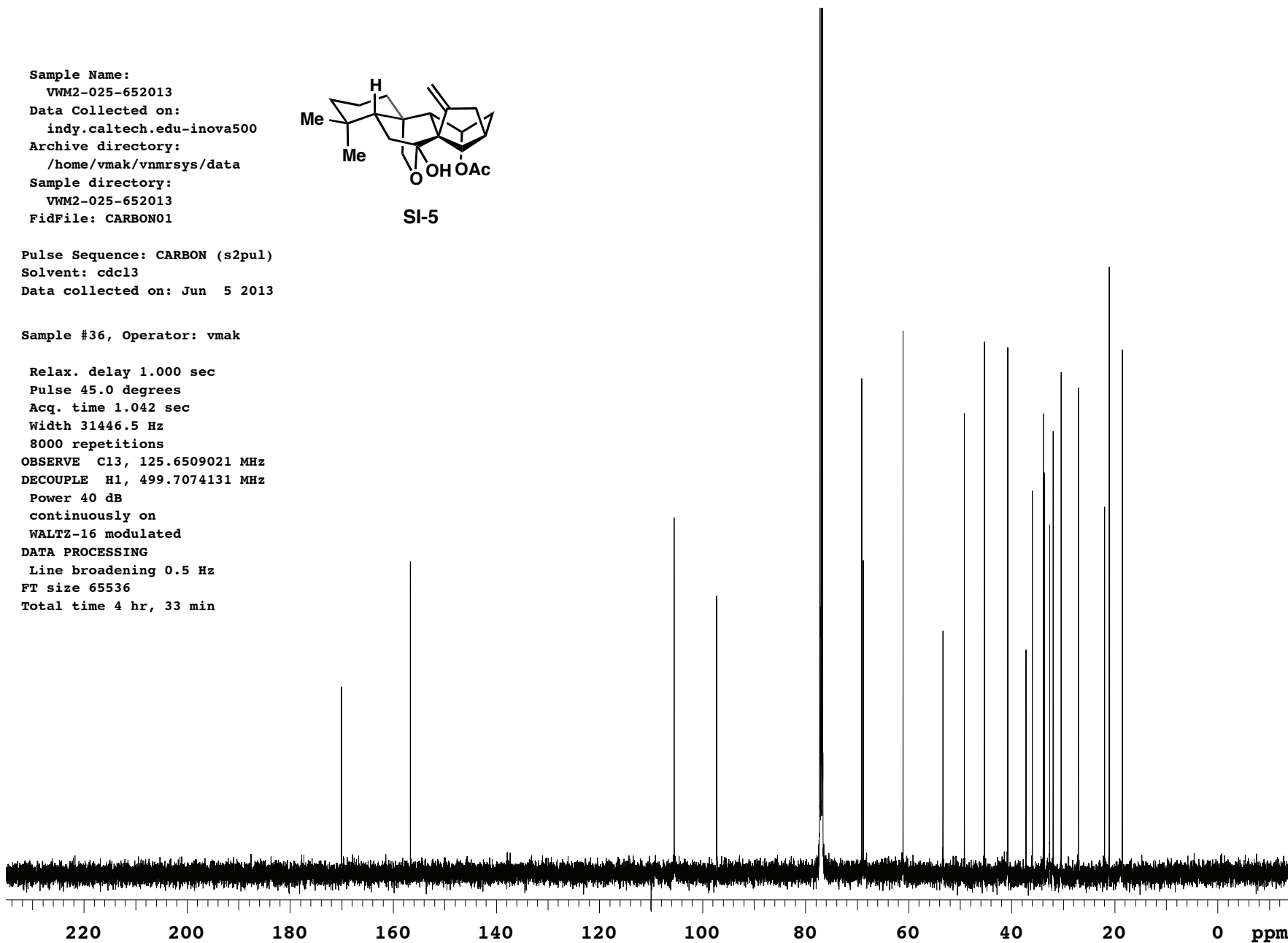
Sample Name:  
VWM2-025-652013  
Data Collected on:  
indy.caltech.edu-inova500  
Archive directory:  
/home/vmak/vnmrsys/data  
Sample directory:  
VWM2-025-652013  
FidFile: CARBON01



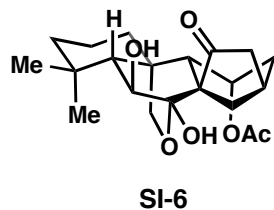
Pulse Sequence: CARBON (s2pul)  
Solvent: cdcl3  
Data collected on: Jun 5 2013

Sample #36, Operator: vmak

Relax. delay 1.000 sec  
Pulse 45.0 degrees  
Acq. time 1.042 sec  
Width 31446.5 Hz  
8000 repetitions  
OBSERVE C13, 125.6509021 MHz  
DECOUPLE H1, 499.7074131 MHz  
Power 40 dB  
continuously on  
WALTZ-16 modulated  
DATA PROCESSING  
Line broadening 0.5 Hz  
FT size 65536  
Total time 4 hr, 33 min



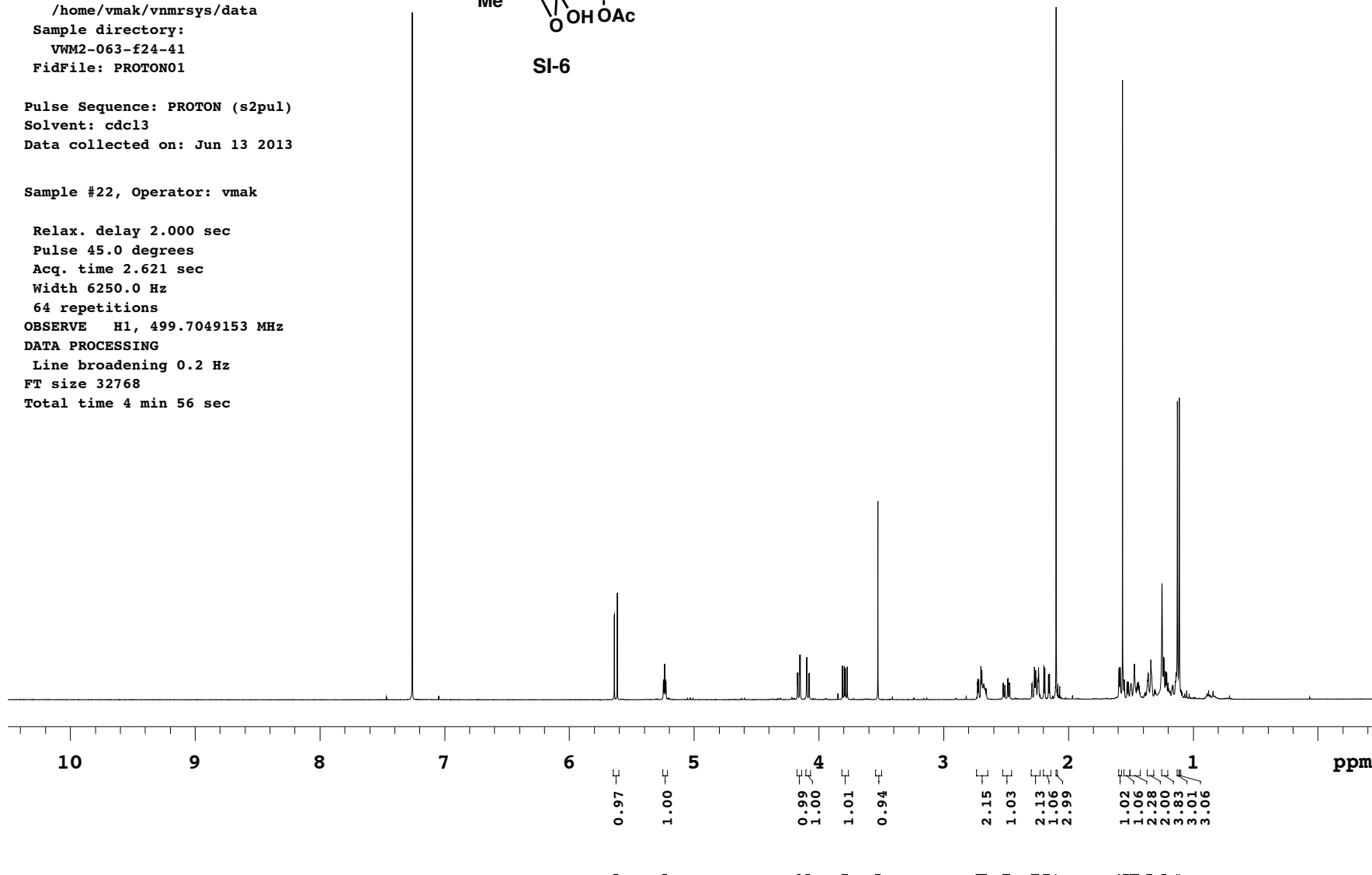
Sample Name:  
VWM2-063-f24-41  
Data Collected on:  
indy.caltech.edu-inova500  
Archive directory:  
/home/vmak/vnmrsys/data  
Sample directory:  
VWM2-063-f24-41  
FidFile: PROTON01



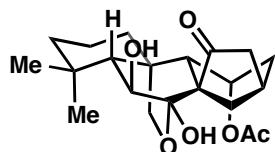
Pulse Sequence: PROTON (s2pul)  
Solvent: cdcl3  
Data collected on: Jun 13 2013

Sample #22, Operator: vmak

Relax. delay 2.000 sec  
Pulse 45.0 degrees  
Acq. time 2.621 sec  
Width 6250.0 Hz  
64 repetitions  
OBSERVE H1, 499.7049153 MHz  
DATA PROCESSING  
Line broadening 0.2 Hz  
FT size 32768  
Total time 4 min 56 sec



Sample Name:  
VWM2-043-f26-36  
Data Collected on:  
indy.caltech.edu-inova500  
Archive directory:  
/home/vmak/vnmrsys/data  
Sample directory:  
VWM2-043-f26-36  
FidFile: CARBON01

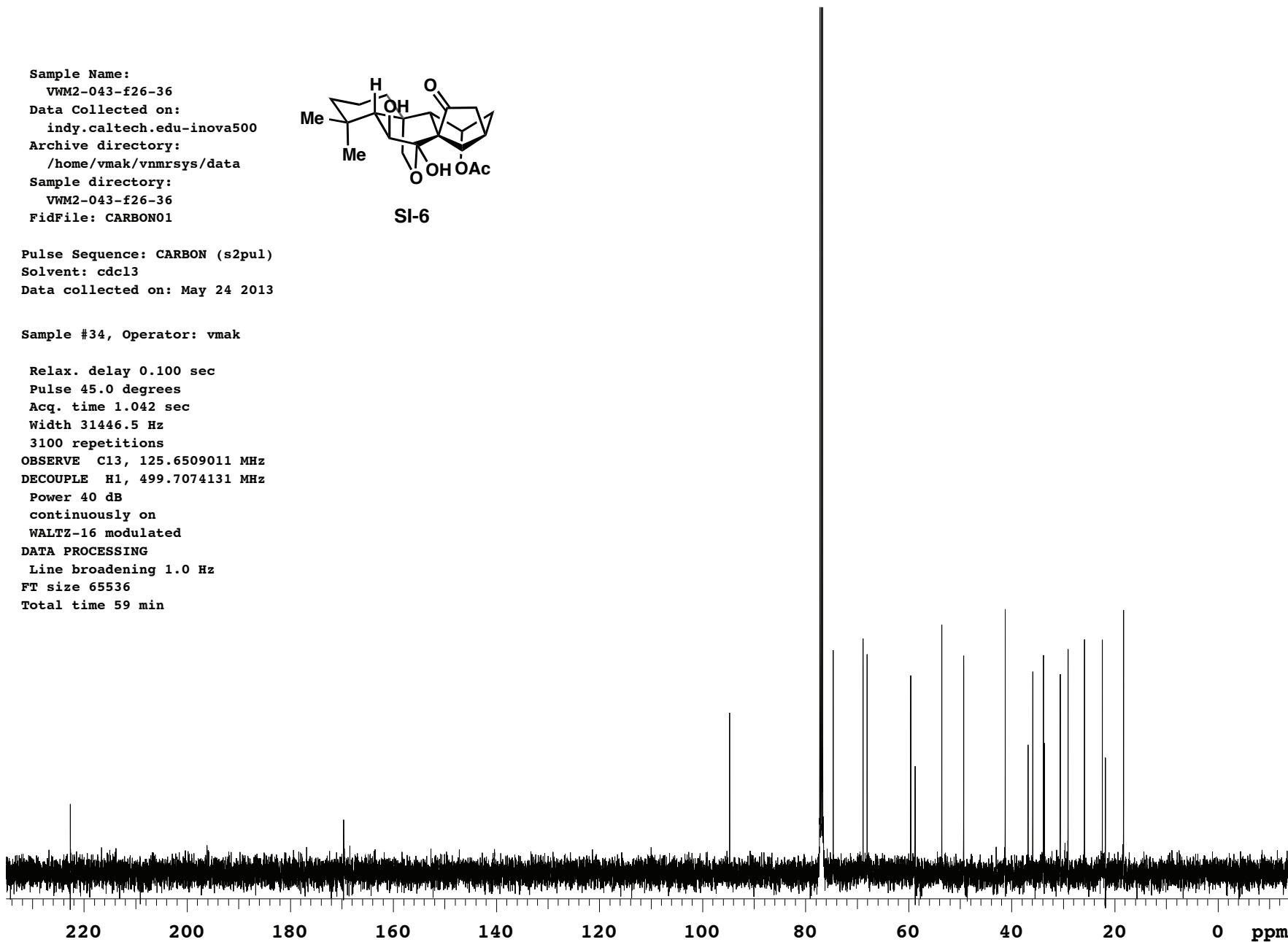


SI-6

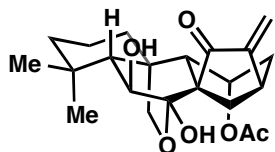
Pulse Sequence: CARBON (s2pul)  
Solvent: cdcl3  
Data collected on: May 24 2013

Sample #34, Operator: vmak

Relax. delay 0.100 sec  
Pulse 45.0 degrees  
Acq. time 1.042 sec  
Width 31446.5 Hz  
3100 repetitions  
OBSERVE C13, 125.6509011 MHz  
DECOUPLE H1, 499.7074131 MHz  
Power 40 dB  
continuously on  
WALTZ-16 modulated  
DATA PROCESSING  
Line broadening 1.0 Hz  
FT size 65536  
Total time 59 min



Sample Name:  
VWM2-067-c2  
Data Collected on:  
indy.caltech.edu-inova500  
Archive directory:  
/home/vmak/vnmrsys/data  
Sample directory:  
VWM2-067-c2  
FidFile: PROTON06

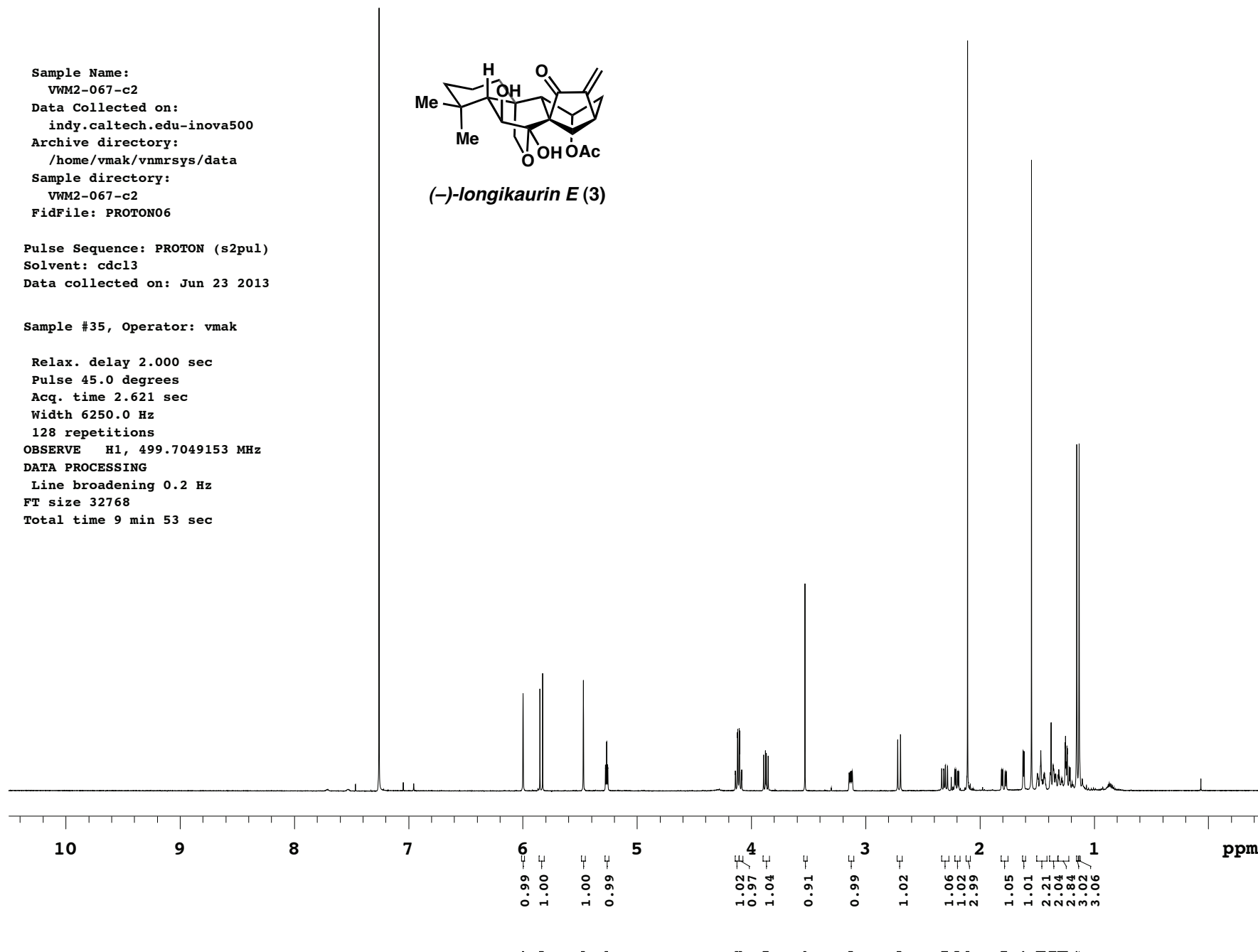


*(-)-longikaurin E (3)*

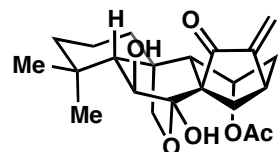
Pulse Sequence: PROTON (s2pul)  
Solvent: cdcl3  
Data collected on: Jun 23 2013

Sample #35, Operator: vmak

Relax. delay 2.000 sec  
Pulse 45.0 degrees  
Acq. time 2.621 sec  
Width 6250.0 Hz  
128 repetitions  
OBSERVE H1, 499.7049153 MHz  
DATA PROCESSING  
Line broadening 0.2 Hz  
FT size 32768  
Total time 9 min 53 sec



Sample Name:  
VWM2-067-c2  
Data Collected on:  
indy.caltech.edu-inova500  
Archive directory:  
/home/vmak/vnmrsys/data  
Sample directory:  
VWM2-067-c2  
FidFile: CARBON01



*(-)-longikaurin E (3)*

Pulse Sequence: CARBON (s2pul)  
Solvent: cdcl3  
Data collected on: Jun 22 2013

Sample #20, Operator: vmak

Relax. delay 1.000 sec  
Pulse 45.0 degrees  
Acq. time 1.042 sec  
Width 31446.5 Hz  
12500 repetitions  
OBSERVE C13, 125.6509014 MHz  
DECOUPLE H1, 499.7074131 MHz  
Power 40 dB  
continuously on  
WALTZ-16 modulated  
DATA PROCESSING  
Line broadening 0.5 Hz  
FT size 65536  
Total time 7 hr, 7 min

